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OLD NEWSPAPER WORKSHOP  
STATE OF CALIFORNIA  
CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD  
MARKET DEVELOPMENT WORKSHOP

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COPY

BOARD ROOM  
8800 CAL CENTER DRIVE  
SACRAMENTO, CALIFORNIA

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WEDNESDAY, SEPTEMBER 30, 1992

9:30 A.M.

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Vicki L. Medeiros, C.S.R.  
License No. 7871

A P P E A R A N C E S

WORKSHOP MODERATOR:

BILL HUSTON, Supervisor  
Market Trends and Analysis Section

BRIAN FORAN, Staff  
Market Trends and Analysis Section  
Market Development Branch

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P R O C E E D I N G S

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MODERATOR HUSTON: My name is Bill Huston. I would like to welcome you here this morning for the Old Newsprint Workshop on market development. This is the sixth workshop that either the staff or the Committee have conducted looking at the barriers and possible solutions to secondary material market development here in the state.

Basically, what we're trying to do is to solicit as much public information, as much public comment, as many suggestions as we possibly can on how to stimulate markets within California for the targetted secondary materials.

We hope to bring all of this information together within the next couple of months. In November, we will be holding a public workshop with our Market Development Committee to discuss action plans of specific items that the Board and the Committee and staff can initiate to stimulate markets.

As I say, in November we're going to be looking at compostables, at mixed paper and at two grades of plastic. In December, we'll be looking at the other material types and the actions that might be proposed to stimulate those markets, that being ferrous metal, pavement, glass and other paper.

I'm delighted to have an additional panel member,

1 Dan, it's good to see you again. We're still waiting on  
2 one, but we do want to get started.

3 I want to introduce the panel. There are copies  
4 in the back of the room of the Agenda for both this morning  
5 and this afternoon workshops. There is also a list of the  
6 panelists.

7 On the back of the Agenda is the list of the  
8 panelists.

9 Brian, do we have the questions that we are going  
10 to answer someplace?

11 MR. FORAN: I could get copies of the original  
12 Notice.

13 MODERATOR HUSTON: We will be addressing six  
14 questions today. In turn, after we complete a question  
15 with the panel discussion, I would be delighted to have  
16 people from the audience to come up and ask questions,  
17 offer suggestions, ask for clarification.

18 It's a fairly small crowd today, so I would like  
19 this to be just as informal as it possibly can be. If you  
20 have comments or if you have questions to ask, please feel  
21 free to do that. Just raise your hand or just walk up to  
22 the podium and begin talking.

23 I want to introduce the panel. On the far end  
24 over on your left is Dan Cotter. Dan has been involved  
25 with the recycling industry for about nineteen years, with

1 the Arcata Community Recycling Center, with the Sonoma  
2 County Environmental Center. He's been involved with scrap  
3 metal collection and processing, with the San Francisco  
4 City and County recycling as their coordinator.

5 He is currently the Vice President of Recycling  
6 Market Development for Norcal Waste Systems. Something I'm  
7 going to be very interested to learn from Dan today is  
8 there's a project that he's working on in West Sacramento  
9 with MacMillan Bloedel, and some information that you may  
10 have heard a few minutes ago on the status of that  
11 project.

12 Dan, we're delighted to have you here again. Dan  
13 was here several weeks ago on our panel on mixed paper  
14 discussion.

15 I will not introduce Stuart Douglas as he's not  
16 here yet. If he does arrive, we will break and introduce  
17 him at that time.

18 On my left is Harry Miller. Harry is the  
19 Recycling Coordinator with Tracy Delta Disposal Services,  
20 brokering recyclables. At the same time, he's working with  
21 the California Waste Removal Systems, Incorporated,  
22 providing marketing services, AB-939 representation and MRF  
23 operational efficiency improvement services.

24 Formerly, he was the Director of the Central  
25 Waste West Coast Region, Cascade Fibers International, here

1 in Sacramento, and developed bulk accounts of suppliers and  
2 end users of recycled materials.

3 Prior to that, he was with Smurfit Recycling  
4 Company, also here in Sacramento, and that company  
5 purchased and sold recycled materials in support of their  
6 processing plant.

7 A couple of other things about Harry is that he  
8 has more than seven years managing a recycling processing  
9 plant, he has provided consulting services in recycling,  
10 marketing recyclables and material recovery facility  
11 efficiency and five years brokering and sourcing  
12 recyclables.

13 Welcome to the panel today, Harry.

14 On the far end is Bill Nielsen, of Nielsen and  
15 Nielsen, Incorporated. Bill in the past has worked for  
16 Garden State Paper in Pomona, that many of us now know as  
17 Smurfit Newsprint Plant down there.

18 He opened his own secondary fiber exporting  
19 business in 1976. He is now selling to over forty  
20 countries internationally.

21 He's the past Chairman of the Paper Stock  
22 Institute. He is currently a Director of the California  
23 Wastepaper Dealers Association. So, welcome, Bill.

24 With those brief introductions, I would like to  
25 turn the program over to Brian Foran, from the Market

1 Development branch staff. Brian is the author of the Staff  
2 Report that is in the back of the room, if you don't  
3 already have a copy.

4 He will give us a brief overview of what he found  
5 in that report and set the stage for the discussions  
6 throughout the morning.

7 MR. FORAN: Thank you, Bill.

8 The six questions which we were going to address,  
9 a couple of which deal with barriers to secondary materials  
10 markets are coming down here. I have overheads that we will  
11 put up when we address the questions, for people in the  
12 audience. We will have those shortly on the back table.

13 I would like to give some background information  
14 on the status of old news markets here in California, and  
15 then touch upon the barriers which are identified in the  
16 Market Status Report for Wastepaper, which are specific to  
17 old news markets.

18 Here are some of the statistics identifying both  
19 potential and actual supply of old newsprint in  
20 California. You can see there are two sets of statistics  
21 here.

22 On the left side is the SRRE Data. That refers  
23 to the City and County Source Reduction and Recycling  
24 Elements statistics that are turned into the Board, and  
25 these statistics represent 85 percent of California's



1 population.

2           From these statistics, it shows that old news is  
3 presently at a 30.7 percent recovery rate. The tons  
4 generated in the state is what I have indicated as  
5 potential supply. Of course, not everything that is  
6 generated is economically a part, or is not an economical  
7 source of supply, but for theoretical purposes, that's the  
8 pool of old news out there that potentially could be  
9 recovered and used in secondary markets.

10           The other set of data, that has the Western  
11 Markets Study Data heading, refers to a study that is being  
12 performed for the Board by R.W. Beck and Associates, and  
13 the paper component of that is being performed by  
14 Jaako-Poyry Consulting.

15           They have come up with some slightly different  
16 figures for tons of news generated in the state, slightly  
17 less than what is implied by the Source Reduction and  
18 Recycling Elements, and slightly higher level of recovery.

19           I would put a great deal of confidence in the  
20 statistics on the right-side. Jaako-Poyry is kind of privy  
21 to information at mills and otherwise which people who are  
22 putting together the waste composition studies for cities  
23 and counties are not, and I intend to use these statistics  
24 in revising the Market Status Report, which right now is in  
25 draft form.

1           Anyway, whether it's 30.7 or 44 percent recovery,  
2           there's still a good deal of room for increased recovery  
3           for news, that is from a collection aspect.

4           American Paper Institute conservatively has them  
5           at economically feasible recovery of ONP is in the 50 to 55  
6           percent range. We can certainly increase our recovery rate  
7           as long as the markets are out there.

8           Sources of demand for ONP recovered in  
9           California, are basically, there are basically three  
10          catagories for that demand. One is foreign markets, which  
11          have the bulk or which provide the bulk of demand for ONP,  
12          as the table shows 39 percent.

13          In-state mills, which includes both the one  
14          recycled newsprint mill in the state, which in fact is the  
15          only newsprint mill in California, plus a host of other  
16          paper and paper board mills, provide that demand.

17          There is a certain demand provided by alternative  
18          markets, such as cellulose insulation. We were hoping to  
19          have Stuart Douglas, with Fiberwood, representing the  
20          alternative industry perspective. Maybe he will come here.

21          We don't have statistics on alternative uses for  
22          ONP. They're simply not available. It's hard to estimate  
23          just what percentage of overall demand the alternative  
24          markets provide.

25          There is also a good deal of news which goes out

1 of the state. Most of that goes to a couple of newsprint  
2 mills up in Oregon that are operated by Smurfit Newsprint  
3 Corporation, the same company that operates the newsprint  
4 mill in Pomona.

5 There are also some new projects coming on line.

6 This top table actually just provides demand by  
7 the existing mills that are consuming newsprint here in  
8 California. The top one is the Pomona mill.

9 The other four mills are mills outside of the  
10 state. These provide the primary bulk of the domestic ONP  
11 demand other than what is consumed in-state.

12 As I was saying, there are some projects which  
13 are coming on line. I do not know if you can read that  
14 back there. The sheets are in the back if you want to  
15 follow along.

16 The one project which is the furthest along, much  
17 beyond the conceptual stage, that would provide a strong  
18 demand for old newsprint is the MacMillan Bloedel newsprint  
19 mill which has been proposed for West Sacramento, proposed  
20 to be built here in West Sacramento, and for those of you  
21 who are from this area or are just following the market  
22 developments for newsprint, you will be well-aware of the  
23 ongoings of the attempt to get that mill sited here in West  
24 Sacramento.

25 Dan Cotter is actually representing that mill as

1 far as trying to line up their supply of newsprint. I'm  
2 sure he will have some comments about the status of that  
3 project and its likelihood of being sited here in  
4 Sacramento.

5           These figures here on the bottom are market  
6 prices for old newsprint, dating back to September 1987. I  
7 think they provide a good illustration of where newsprint  
8 markets have gone over the last five years. These are  
9 approximate prices of which newsprint mills, kind of an  
10 average of both off-shore mills and domestic mills have  
11 paid for newsprint. You can see that prices have more than  
12 come down more than half since 1987.

13           This really highlights the need for developing  
14 newsprint markets, at least from the collection  
15 perspective. I'm sure the mills would be more than happy  
16 if the market situation of over-supply and under-demand  
17 continued.

18           From the State's perspective trying to make sure  
19 our collection programs are economically viable, we would  
20 like to see more demand that will drive that market price  
21 up and make our collection programs economically viable.

22           I just want to touch upon some of the barriers  
23 that were identified in the Market Status Report, barriers  
24 to developing markets for wastepaper. I'll just touch on  
25 those which are specific to newsprint.

1           One of them, the first one that was identified  
2       was subsidies to the timber industry, which essentially  
3       makes supply of virgin fiber below the actual cost that  
4       paper companies would have to pay for it otherwise, without  
5       the subsidies, and consequently, that makes secondary  
6       fibers, ONP, that much less able to compete.

7           So, the mills will choose to use virgin fiber  
8       rather than secondary fibers. The Board is doing a study  
9       on this issue. It's not really set in concrete that these  
10      subsidies are significant enough to really much of a  
11      difference one way or another to paper companies switching  
12      to secondary fiber versus virgin.

13           It's certainly an issue that's worth looking  
14      into, and the Board is contracting a study right now to  
15      assess the impacts of these subsidies to the timber  
16      industry.

17           Poor economy of scale for recycled paper mills,  
18      actually the recycled paper mills that are putting out  
19      newsprint, the Smurfit groups, the new mill, Weyerhaeuser's  
20      new mill in Longview, or their new deinking project there,  
21      actually operated on a very large scale, however, compared  
22      with virgin mills, there is -- they really aren't putting  
23      out the numbers that the Canadian virgin newsprint mills,  
24      which some of them are switching over to deinked newsprint,  
25      but simply the fact that they are not putting out as much

1 creates a lower economy of scale.

2 Anything that we can do to increase demand for  
3 recycled product which allows them to produce more, will  
4 allow them to operate on a higher economy of scale and thus  
5 be more competitive with virgin product.

6 High cost of deinking equipment has been a  
7 barrier, not only for newsprint but other wastepaper  
8 grades. The Board right now is considering various  
9 alternatives, financial incentives for paper manufacturers  
10 to encourage them to purchase deinking equipment which will  
11 allow them to use secondary fibers, such as ONP.

12 High wastepaper transportation cost, this has  
13 always been a problem, particularly for newsprint here in  
14 California since a good deal of it does go out of state.

15 Probably the best way to address that is to get  
16 the mills closer to the source. That is one of the reasons  
17 MacMillan Bloedel is considering siting here in California  
18 because a great percentage of the market is here, rather  
19 than manufacturing recycled content newsprint, which is now  
20 required of newspaper publishers here in our state to use,  
21 at least the percentage of their use needs to be recycled  
22 content newsprint, it makes more sense for manufacturers to  
23 make the paper right here rather than make it up in Canada  
24 and ship it down.

25 Anything that the Board can do to encourage

1 siting of the recycled paper mills here will offset those  
2 high transportation costs.

3 That's the bulk of the barriers that are  
4 pertinent to old news. One of the questions that we will  
5 ask the panelists are just what they consider to be the  
6 greatest barriers for further developing markets for  
7 newsprint.

8 Is this Stuart?

9 MODERATOR HUSTON: Thank you, Brian.

10 Welcome Stuart. Before we ask some questions of  
11 Brian, I would like to introduce Stuart Douglas, who is  
12 here.

13 He is currently with Douglas Homes and has been  
14 in the construction industry since 1977, so for sixteen  
15 years or so, fifteen, sixteen years. He is also the owner  
16 of Fiberwood, Incorporated, a manufacturer of cellulose  
17 insulation.

18 He is here to represent alternative uses to old  
19 newsprint other than turning it back into paper. Welcome,  
20 Stuart. I'm glad you could make it this morning.

21 Are there any questions of the panel regarding  
22 Brian's report or clarification of data? Anybody?

23 Anybody from the audience have any questions?

24 Okay. Excellent.

25 I would like to waiver just a tad from the Agenda

1 and ask each of the four panelists to make a brief  
2 introductory remark and perhaps share with us what they  
3 think that the greatest barrier is right now or market  
4 condition that they think we need to address and put them  
5 on the spot.

6 Dan, since you've been here before, I'll start  
7 with you.

8 MR. COTTER: I was first last time, too.

9 My name is Dan Cotter. I currently have my own  
10 company, Secondary Resource Markets. I work primarily in  
11 the market development field, working with small and large  
12 businesses in supplying them with wastepaper, scrap metal,  
13 glass, whatever they need.

14 The major project I'm working on, as some of you  
15 already know, is the MacMillan Bloedel project, proposed  
16 newsprint recycling plant that would go a long way towards  
17 solving some of the market problems for newsprint in  
18 California, especially with the curbside programs.

19 Your question, I guess, is really going to  
20 question one, greatest barriers?

21 MODERATOR HUSTON: We can certainly allow the  
22 introduction and then move right into the question.

23 MR. COTTER: You asked the question about  
24 barriers.

25 MODERATOR HUSTON: Basically what I was



1 interested in if there is a general statement that you want  
2 to make about the market or barriers, we could get into the  
3 detail when we address the questions.

4 MR. COTTER: I guess --

5 MODERATOR HUSTON: I was really interested to  
6 know what is happening with MacMillan Bloedel.

7 MR. COTTER: Let me first of all just say that  
8 probably the biggest issue that we face is that collection  
9 systems are much easier to set up and much faster to set up  
10 than manufacturing facilities.

11 That's the reason why we're heading down the path  
12 we're heading and possibly towards a situation the East  
13 Coast experienced five or six years ago where paper  
14 supplies went into the negative numbers. It's a major  
15 problem in California. It's a major barrier to recycling  
16 and promoting recycling, negative prices for commodities.

17 From the development side, the major barriers,  
18 especially in California, is the permitting process. It's  
19 a very long and timely process. It will keep us from  
20 really meeting some of the time lines that AB-939  
21 envisions, a 25 percent, 50 percent recycling rate, 1995  
22 and 2000 respectively, and manufacturing facilities will  
23 not be able to develop that quickly to meet the kind of  
24 supplies that AB-939 envisions. I think that's a barrier  
25 to the recycling collection program.

1           Beyond the permitting, probably the major issue  
2   for any small or large scale manufacturing is capital.  
3   Capital is hard to obtain right now. Bankers are very  
4   nervous about loaning money. The economy is very poor.  
5   Manufacturers themselves are concerned about borrowing  
6   money to produce products that they're not so sure that  
7   they will be able to sell their finished product at the  
8   kind of price to be economical.

9           I say those things to kind of set the stage for  
10   the answer that you really wanted was the status of the  
11   MacMillan Bloedel mill. The President of MacMillan Bloedel  
12   was making a speech in Canada, maybe a week ago or sometime  
13   last week, and was making some offhand comments about how  
14   terrible the economy is, how hard it is to get money, and  
15   et cetera, et cetera, and has been misquoted down here as  
16   saying that the MacMillan Bloedel project is cancelled.

17           The project is not cancelled. However, those  
18   issues that he expressed in his speech are very real  
19   issues. The economy is very poor worldwide. Demand for  
20   newsprint is low. The price for newsprint is very low.  
21   The economics of this particular facility is very poor at  
22   this point in time.

23           I guess the good news, to some extent, although I  
24   talked about it being bad news earlier, the good news is  
25   that the permitting process in California will take another

1 six to eight months, and hopefully in six to eight months  
2 things will look more positive economically, and the  
3 financial situation of the mill will look more positive and  
4 banks will be more willing to loan money.

5 So, that's really the tenor of those comments.  
6 The real issue that is being faced with that plant now is  
7 that the economics for newsprint is very poor.

8 I think the reason that some of this has really  
9 blossomed is people looked at this as a real situation that  
10 MacMillan Bloedel may pull out of California because the  
11 Smurfit Corporation two weeks ago or so decided that they  
12 were going to indefinitely postpone their project in New  
13 York, and for some of the same reasons that MacMillan  
14 Bloedel is being quoted as cancelling here in California,  
15 conditions for opening a new, especially newsprint  
16 producing, facility today is horrible.

17 The price of producing newsprint is far above the  
18 sales price of newsprint. Everyone manufacturing newsprint  
19 now is losing money.

20 That's enough of that.

21 MODERATOR HUSTON: Thank you, Dan.

22 Stuart.

23 MR. DOUGLAS: I am Stuart Douglas. I'm the owner  
24 of Douglas Homes, Incorporated, as well as Fiberwood, Inc.

25 I came into this scenario really by the backdoor

1 as a builder, there in the Tahoe area. We became concerned  
2 over the availability of insulation, and coincidentally a  
3 large manufacturer of insulation in Benica, California,  
4 decided to relocate out of California, primarily due to the  
5 woes that we are having with worker's comp, and taxation,  
6 and on and on and on, as any businessowners will understand  
7 what I'm referring to, which left us with somewhat of a  
8 hole for our source for insulation supply that we were  
9 using.

10 We decided to research the area, and decided on  
11 Sacramento to open up a new manufacturing plant, a facility  
12 here that makes several building products, insulation,  
13 hydroseeding mulch, just to name of couple of them now.

14 The barriers for this, the only one I see right  
15 now, there is an adequate source supply here in the  
16 Sacramento area. One part that really is irksome to us at  
17 the plant is that the product, in this case the ONP or  
18 newspaper, is really not designed for the uses for  
19 recyclers ourselves, it was really designed for the  
20 intended use of the buyer, but when we get it at our  
21 facility, we have to contend with the inks, the staples and  
22 the other garbage that is mixed in.

23 The point of contention that I have with our  
24 source, that is that we hope somehow to instigate ways in  
25 which we could design the product itself so that we can

1 accept it at the plant in an easier fashion. I mean the  
2 inks, the staples, are the two most critical items right  
3 off the bat.

4 Besides that, as you have heard today, the source  
5 of newspaper is very abundant and the price is excellent,  
6 and a manufacturer in my shoes who takes advantage of this  
7 situation has nothing but good things to say for it.

8 MODERATOR HUSTON: Okay. Thank you.

9 Harry.

10 MR. MILLER: I think the price is somewhat less  
11 than excellent from my perspective.

12 I'm Harry Miller. I represent Tracy Delta  
13 Disposal and the California Waste Removal Systems, both in  
14 San Joaquin County. We handle the solid waste disposal for  
15 probably 50 percent of the population of the county, north  
16 and south, Stockton being in the middle and handled by  
17 other companies.

18 Dan covered most of the things that I would say  
19 from my perspective and do not know what is left for all  
20 intents and purposes.

21 The biggest barrier from what I see is the lack  
22 of demand for products. We keep generating more and more  
23 newsprint, and we keep recovering more and more newsprint,  
24 and the demand is not expanding at the same rate as the  
25 supply is.

1           Five years ago I said in a seminar here in  
2       Sacramento that I think Dan chaired, as a matter of fact,  
3       that one of the fellows at the seminar made the comment,  
4       well, if we just generate big piles of stuff, someone will  
5       come up with a use for it.

6           Unfortunately, that's not the case. One of the  
7       negatives that we run into from the collection perspective  
8       is that when you run into a situation like Minneapolis did,  
9       collecting a great deal of newsprint and they were buying,  
10      the mill went down for a period of time over a labor  
11      dispute, and they ended up taking that newsprint to the  
12      landfill, all the old newspapers.

13          Everybody says, gee, what are we saving that  
14      stuff for if it goes to the dump anyway? It's a very real  
15      danger that we need to look at.

16          Unless the demand increases, the price is driven  
17      down right now on the East Coast that you have to pay to  
18      get rid of it as opposed to getting paid for the materials.

19          We're fortunate on the West Coast in that we do  
20      have the Pacific Rim to help support us and keep us at  
21      least in positive numbers so that there is some return at  
22      least that helps defray some of the cost of the program or  
23      collections that we run into.

24          We all face the same problems with the  
25      availability of capital for any expansion. We're running

1 into that in Tracy where we're attempting to site a  
2 material recovery facility there that generates more  
3 newsprint. We are having difficulty with the capital on  
4 that.

5 The cleanliness issue is one of our concerns. A  
6 lot of it depends on the collection mechanism. A lot of the  
7 newsprint comes from curbside programs. You get a lot of  
8 stuff in with it.

9 It's somewhat of a task to educate the public  
10 that cleanliness is of essence in setting up a collection  
11 program. They have difficulty understanding that high  
12 grade paper and newsprint is not compatible. These are  
13 some of the issues that we run into.

14 MODERATOR HUSTON: Thank you.

15 Bill.

16 MR. NIELSEN: I'm Bill Nielsen, with Nielsen and  
17 Nielsen.

18 From the export scenario, which is the reason  
19 that I'm hear, Asia, of course, consumes more and more of  
20 the old newspapers generated from the West Coast.

21 From Brian's report, in 1981 it was 54 percent  
22 domestic consumption, to 46 export. In 1991, it was 39  
23 percent domestic and 61 percent export. It's obviously the  
24 biggest consumer of old newspapers.

25 The growth rate in all of Asia has been good,

1 with Korea and Taiwan since the late 70's through '88, '89,  
2 when their economy, quote, unquote, "peeked" consumed a  
3 tremendous amount of old newspapers as more and more  
4 packaging, duplex board, recycled paperboard and newsprint  
5 machines went into place.

6 We are seeing more emphasis in manufacturing and  
7 mills shift to Southeast Asia because of the lower labor  
8 cost rates primarily, as well as perhaps a little bit more  
9 conducive attitude towards building paper mills. Korea,  
10 Taiwan, as well as Japan, of course, are getting just as  
11 "green," quote, unquote, as we are, and are facing the  
12 same effluent problems, pollution problems that many mills  
13 run into in the states.

14 Three areas that are barriers to old newspapers,  
15 some of which we overlap, of course, are, A, the printing  
16 inks. We're seeing new, a relatively new process in the  
17 flexigraphic printing, which is prevalent in San Francisco  
18 and in a couple of other areas in California, that are  
19 driving the mills absolutely crazy in the Far East.

20 Since they are having problems removing the ink,  
21 they are, therefore, contaminating their own product.  
22 That's probably more commercial and could be overcome by  
23 the big chemical companies, one would assume.

24 The next barrier is the ocean freights. We are  
25 dealing with a commodity obviously that is very low in



1 value in old newspapers. It's supply and demand, but with  
2 the solid waste situation the way that it is around the  
3 county, as well as worldwide, with particular emphasis on  
4 Germany, France, Spain, even China, in April in the city of  
5 Chuong Yu, which used to be known as Canton, they have a  
6 3,000 ton a day problem in their city of a just few million  
7 people.

8 It's becoming a bigger problem. But these ocean  
9 freights, of course, have wastepaper being, or paper stock  
10 being one of the four to five base commodities that fill  
11 the steamships up to go back to the Far East and other  
12 areas of the world, in some cases the ocean freight is  
13 literally 90 percent of the sale when quoting delivered to  
14 the customer in whatever port in Asia.

15 Could some dialogue from the state level be  
16 influential or assist in some of the lines in decreasing  
17 some of the freight rates, could be a good possibility.  
18 That's the second barrier.

19 Once again, like the other gentlemen on the  
20 panel, the quality is of paramount importance from the  
21 standpoint primarily of the MRFs or municipal collections.  
22 We have to take it back down to John Q Public, if you will.

23 We save old newspapers for the city and town like  
24 we used to and like we still do for the Boys Scouts and the  
25 church groups, but due to very low revenue, many of the

1 independent collections from parties have all but stopped.

2 If you look at the public's idea of quality,  
3 they're going to put in the magazines, they're going to put  
4 in the cereal boxes, they're going to put in the plastic,  
5 and hopefully not, but they feel they are doing the right  
6 thing. More education must come.

7 You cannot look at a MRF facility in a commingled  
8 situation. Once you touch glass with paper or with  
9 plastic, if they are commingled, the quality of the  
10 municipally collected fiber around the country, and I've  
11 been to 60 or 70 facilities, versus what was once and still  
12 is sorted by the public or private, big or small secondary  
13 fiber dealer, your quality is becoming less and less and  
14 less.

15 It's very difficult for the mills overseas to  
16 realize to change their cleaning equipment, to spend a few  
17 more million dollars in economies, in Asia at the moment,  
18 that are just as bad as the economy is in the states.

19 MODERATOR HUSTON: Thank you, Bill.

20 We have perhaps covered most of question number  
21 one, whether we intended to or not. I would like to throw  
22 it open.

23 Are there any other barriers that anyone would  
24 like to mention? No? Yes?

25 I know that Bill had an opportunity to talk some

1 about what we might do to overcome them. Are there any  
2 other suggestions based on the barriers that you identified  
3 or that Brian did or any of the panelists that you would  
4 like to comment on?

5 MR. COTTER: To follow-up on Bill's comment on  
6 education, educating the public and agencies about the  
7 overall environmental effects of using recycled commodities  
8 in the manufacturing process, again, bringing up the ideas  
9 of conservation of resources, both natural resources and  
10 landfill resources, energy savings, job development, some  
11 of that has been lost with the push of putting it in the  
12 container and it will be recycled and everything will be  
13 fine.

14 Some of the agencies that are overseeing the  
15 development or overseeing the permitting of the  
16 manufacturing facilities in the state could use a little  
17 attitude change towards these projects, seeing them more  
18 positively than alternatives to disposal. Many of the  
19 small scale businesses that want to be involved in using  
20 recycled materials in their manufacturing are being looked  
21 at as, well, you're going to open up another dump in the  
22 middle of the city, or transfer station, and you're going  
23 to bring garbage in there to make something out of it.

24 It would be helpful to educate what these  
25 materials really are.

1 MODERATOR HUSTON: Okay.

2 Harry.

3 MR. MILLER: Touching on that issue as well, I  
4 think we talk a lot about educating the public, but there  
5 is an element that we skip over. That's educating the  
6 municipalities and getting the word out beyond the industry  
7 so that the people that we're dealing with and licensing us  
8 and approving the projects know what we're talking about,  
9 too.

10 Specifically, dealing with glass and newsprint  
11 problems, I have run into this over and over again in the  
12 period of the last ten years in trying to set up recycling  
13 programs or discussing recycling programs, and I have had a  
14 great deal of difficulty conveniencing people that it was a  
15 real problem.

16 When you go into a wholly commingled collection  
17 system and you have glass and paper mixed together, you're  
18 always going to end up on the glass side. I worked in that  
19 industry for a number of years, and I wanted to say what is  
20 the problem with glass? Don't they have filters and  
21 screens to get the fibers out?

22 What I was told, and you guys can correct me if  
23 I'm wrong, once upon a time in making paper, you laid the  
24 paper pulp on a wire, literally made of wire mesh, and they  
25 changed that over to a synthetic fabric, and now it's a

1 kind of a plastic that they're using to form the paper on,  
2 they lay this pulp on there.

3 Glass fibers are so minute that they get in there  
4 and degrade the wire at a rapid rate. If there is glass  
5 present, you get about half the life out of the wire that  
6 you would normally get without the glass being present.

7 The wire only lasts about six weeks anyway and  
8 costs about \$30,000 to change it. If you cut the life in  
9 half, you've got a significant problem.

10 I can't seem to get this through to city councils  
11 when I talk to them, we I say, hey, guys, we can't do it  
12 commingled. We can't mix everything together and then  
13 separate it out.

14 We need to educate the people to make the  
15 decisions properly.

16 MODERATOR HUSTON: Thank you.

17 Anything else?

18 MR. DOUGLAS: One last point that I'll mention,  
19 too. This hits on the education of the public.

20 As you know the public is greatly influenced by  
21 the Federal Government. We recently had the Resource  
22 Recovery Conservation Act. I thought that was an excellent  
23 step forward as far as the procurement policy we have in  
24 the country to encourage people to start buying recycled  
25 goods.

1           As you have read, at least I have, the RCRA Act  
2   is becoming rapidly deflated. There is an obvious lack of  
3   interest or intent to follow its words as they are laid  
4   out. The point that I would make is, if we don't have the  
5   push by the Federal Government to encourage people to  
6   recycle and purchase the products, we will lose half the  
7   battle from the front.

8           MODERATOR HUSTON: Okay.

9           Would you come to the microphone and identify  
10   yourself, please.

11          MR. MEYERSON: My name is Bernie Meyerson. I'm a  
12   partner in a paper brokerage and recycling center.

13          I just wanted to make two observations. One, I  
14   think it would useful at this point to address the issue  
15   that ONP is not a single commodity but comprised of several  
16   grades used for several different things, and what is  
17   allowable varies depending on what market it's going into.

18          That sort of brings me to the second point. We  
19   are talking about education, there is a third element to  
20   that education, not just the city council and the  
21   generators, but it's also the processors.

22          The waste industry in general has not been  
23   terribly sensitive to the mill requirements or to peculiar  
24   mill requirements that are necessary to match a product  
25   with an end user. They have also tended to focus on

1 collection economics rather than the processing side, which  
2 sometimes it's the collector that encourages the  
3 commingling because they view it as a more cost-effective  
4 way of collecting.

5 I see you shaking, but I know there are haulers  
6 out there.

7 MR. MILLER: We run three different systems.

8 MR. MEYERSON: I'm not saying they all do.

9 The point is that even where the paper is not  
10 commingled, it still might require some upgrading and  
11 alteration depending on the market demands. MRFs have to  
12 be designed to allow, just as with the secondary wastepaper  
13 industry, to allow for certain amount of in-house upgrading  
14 as well as educating the public.

15 MODERATOR HUSTON: Thank you, Bernie.

16 We will be seeing more of Bernie this afternoon  
17 when he sits up here and responds to question from those  
18 not sitting up here.

19 Any other comments from the public?

20 MR. BEST: Rick Best, with Californians Against  
21 Waste.

22 I'm really glad to see when Brian first initially  
23 listed the barriers, I thought one of the things that  
24 really should have been included was poor quality. When  
25 you get back, that may be one thing that you want to add.

1 I wanted to go back on what Bernie was saying in  
2 terms of the gradations, I assume that is going to be  
3 discussed in question four, but I would like to know what  
4 some of the problems are in terms of material that is  
5 contaminated through glass from commingling, is that  
6 material just simply landfilled at this point in  
7 California, or are there other markets, and to what extent  
8 of a problem has that been in California as far as quantity  
9 generated that is contaminated?

10 MODERATOR HUSTON: Does anybody want to address  
11 that question now or bring it up in four?

12 MR. COTTER: I can address it now.

13 First of all, Bernie is correct in saying there  
14 should probably have been some discussion of the various  
15 grades of newsprint. Without going through all the various  
16 grades, I will say that there are generally two  
17 distinctions.

18 One is very clean newsprint, number 8 news, that  
19 being used primarily by manufacturers who want to produce a  
20 newsprint product again, or a paper product that will be  
21 used as a paper product or writing paper or printing  
22 paper.

23 The rest of the news, which is 6, 7, 10, 2, dirty  
24 news, number 1 news, there are millions of different names  
25 that people use to identify what they have, is generally



1 used in processes where that paper and its quality is  
2 hidden under layers of other qualities of paper.

3 Box board is a prime example of that, where there  
4 are layers of mixed waste paper and newsprint sandwiched  
5 between the outside layers of craft paper.

6 Those people that are going to initiate new  
7 programs and those people that are processors must be aware  
8 that the quality of product that they are producing today  
9 and sellable today may or may not be the quality product  
10 that they can produce tomorrow and sell tomorrow.  
11 Flexibility is very important in the collection and  
12 processing systems as well some knowledge of where they are  
13 selling to.

14 The reason that I say that we may run into more  
15 problems later is that a lot of the programs today,  
16 especially commingled programs, are selling their low grade  
17 newsprint to box board manufacturers. That market will  
18 probably become saturated. As more and more programs come  
19 on line, they will have to find markets other than that  
20 industry.

21 Most of the new demand for newsprints are  
22 newsprint manufacturing facilities because of the minimum  
23 content law. Those facilities will all demand very clean  
24 newsprint to be able to make newsprint from them.

25 Future demand is going to ask for cleaner and

1 cleaner quality newsprint, not dirty quality newsprint. I  
2 think that's something that many of the people that are  
3 designing MRFs today are looking forward to, setting up  
4 programs and looking around at other people's programs and  
5 MRFs and saying, they are collecting it altogether and they  
6 are able to sell it.

7 San Francisco is a prime example. It sells 25,000  
8 tons a year of newsprint that is heavily contaminated with  
9 junk mail and other material. It is going to a box board  
10 manufacturer. It always has. It's not a problem.

11 We sell this year in and year out. The price is  
12 reasonable. Some MRF operator says I'm jumping on that  
13 band wagon.

14 I think that's something that is going to hit  
15 home probably in the next three to five years, that many of  
16 these programs that are being set up to collect commingled  
17 are going to have to go back and re-educate people to  
18 separate the newsprint, completely separate newspaper from  
19 all their bottles and cans, or tremendous investments are  
20 going to have to be made on sorting facilities to upgrade  
21 the quality of the paper.

22 There are certain things that certain  
23 manufacturers cannot tolerate, whether it's news or high  
24 grade paper or whatever. Most of the public doesn't  
25 understand the dynamics.

1           Again, one of the educational things for the  
2 public, to the municipalities, to the private entrepreneur,  
3 having an understanding of really happens in the market  
4 place.

5           MODERATOR HUSTON: Thank you, Dan.

6           Any other comments?

7           MR. MILLER: Mr. Meyerson is absolutely right on  
8 the educating the operators of the various collection  
9 programs as to what is economical and what isn't and where  
10 you need know your system.

11           Between Tracy Disposal and California Waste  
12 Removal Systems, we operate three, essentially the three  
13 types of collection systems. One of which is fully  
14 commingled, automated.

15           One of which is a three-bin system, where the  
16 materials are separated to some degree and picked up  
17 separated. The other is a system where all materials are  
18 completely sorted at the curb.

19           The materials that are completely sorted at the  
20 curb are absolutely the cleanest. The one's that are fully  
21 commingled are absolutely the dirtiest.

22           We don't use that term. They have the lowest  
23 level of quality, let's say. It's taken me over a year to  
24 convince the owner of the company running the commingled  
25 system that he is actually economically ahead to do some

1 sort separating rather than the commingled system.

2 His theory being that I have this high-priced  
3 driver out there running his truck, and it costs me more to  
4 pay him than it does some sorter on a line. You put ten  
5 sorters on a line, and they add up over what that one  
6 driver does real quick like. He has come around here over  
7 the course of the past year.

8 Knowing what you're selling and getting that  
9 point across to the mills is an excellent point. At one  
10 point in time I was selling white ledger in California to  
11 three different mills with three different criteria.

12 Look in the paper standards guide and it has a  
13 description of what white ledger is. One mill was very  
14 sensitive to staples and metals because they were making a  
15 food product.

16 Another mill was very sensitive to color because  
17 they were using the paper to create the top liner on their  
18 paper.

19 The third mill didn't care. I'm selling this  
20 grade of paper, but I have to watch the color going to one  
21 mill, I've got to watch the staples and paper clips going  
22 to another mill, and the third mill doesn't care.

23 They're all paying the same price for it. What do  
24 you do? You have to match the product to the mill and be  
25 aware of what they want. I agree with that statement.

1           MR. FORAN: I just would like to add that the  
2 Board has established as one of its market development  
3 goals the promoting the highest end use of secondary  
4 materials.

5           Certainly in the case of old newsprint, that  
6 would be going back into newsprint. Everything that has  
7 been said here about quality is what the Board is trying to  
8 promote, certainly meets the minimum content law for  
9 newsprint, reflects where the direction of market  
10 development is in the state, and that is recycling the  
11 product into its highest end use.

12           The comments are well-taken, and we will try to  
13 work with them somehow to see what the state can do to  
14 promote the quality issue, if, in fact, that is what we  
15 want to see the old news go back into a product which  
16 requires that high quality.

17           MODERATOR HUSTON: Thank you.

18           Move to question two. In question one we looked  
19 at the barriers, and perhaps some of the answers to  
20 question two will be very similar.

21           What are the greatest barriers for substituting  
22 old newsprint for virgin feedstock by existing virgin  
23 product manufacturers, and how could these barriers be  
24 overcome?

25           MR. NIELSEN: There are a couple of fairly large

1 barriers. Be it domestically or internationally, you have  
2 to look at the end user of the product being manufactured.

3 I'll use as a domestic example, IBM for copy  
4 paper, I realize that we're talking newsprint, or let's use  
5 any of the big newspapers in Taiwan or Singapore or  
6 wherever in Asia.

7 What do they want to see? Since Asia has been  
8 supplied a lot of its end products from worldwide sources,  
9 Scandinavia, United States, Canada, South America, the  
10 Asian mentality, and we sell a lot of prime quality  
11 newsprint as well as converted, so we know pretty well they  
12 want it bright and white, so when it's printed in either  
13 multi-color or black and white or red and white, very  
14 common with the Chinese, it has got to stand out.

15 When we do look at a recycled sheet, and trying  
16 to sell a recycled newsprint, the end product, it's not  
17 that easy. It's a question of economics when it comes down  
18 to the end use.

19 Many fears are that they will not get the  
20 production that they can out of a stronger sheet,  
21 admittedly, of a virgin material. It's going to take -- in  
22 Japan the attitude has changed similar to our public's  
23 attitude and governmental attitude on secondary fiber, but  
24 we have not seen in any of the other countries on a large  
25 massive scale the push to use the recycled products that

1 obviously we do see here.

2           Could the barriers be overcome? I think it's  
3 going to start at either a governmental level or a public  
4 level from the export scenario overseas to demand that they  
5 use a recycled newsprint.

6           You cannot pick up a paper where they are proud  
7 to say, as we are here, this material is made out of  
8 X-amount of percent of secondary fiber, be it old newspaper  
9 or whatever other grade.

10           In regards to packaging material, that's a  
11 totally different story. The growth from the packaging  
12 materials in places like China, Indonesia, and Southeast  
13 Asia is going very fast. As the products being produced, be  
14 it computers or toys, shifts around the various regions in  
15 Asia.

16           We will see more packaging increase as well as  
17 more sophisticated packaging come out of Korea and Taiwan  
18 to equalize how our packaging looks.

19           Asia needs secondary fiber. They consume a lot  
20 of virgin end products, but there is a tremendous amount of  
21 barriers aside from the end user saying I want it bright  
22 and white and beautiful, no specks, but we're dealing also  
23 with clients that are slowly coming around here  
24 domestically.

25           It's a change in the attitude to perhaps

1 accepting a lower quality, perhaps it's even the same  
2 quality. A lot of it is psychological. Recycled, forget  
3 it.

4 Then you have to go in and try to do the sales  
5 job that the product will in fact perform equal to the  
6 virgin product.

7 MODERATOR HUSTON: Thank you. Harry.

8 MR. MILLER: This really isn't my area, per se.  
9 There are some comments that I would like to make.

10 In the substituting of secondary fiber for virgin  
11 stock, one of the prime problems that we had back when I  
12 was with Smurfit is the perception of the material being  
13 somewhat less quality than the virgin materials.

14 Smurfit Newsprint at that time was producing a  
15 commercially competitive sheet with virgin stock. The  
16 printers didn't believe it.

17 You's go into a newspaper and say this stuff has  
18 recycled -- oh, no. I have too many press room breaks, too  
19 many problems with it, and all this good stuff.

20 What a couple of enterprising company owners did  
21 was they just removed the labels or wrappers on the rolls  
22 of paper and had the printers run it.

23 Then they asked, how did you like it? Okay. That  
24 was recycled stuff. They got the point across to them.

25 It's just when you run secondary, you've got



1 cleanliness problems. That's all there is to it.

2           The example that I use in the industry, in the  
3 paper mills, you have a highly technical term for a  
4 particular type of contamination from gum called a sticky.  
5 A sticky is a little piece of gum that goes all the way  
6 through the process and ends up on the finish paper.

7           A particular example is if you make box board or  
8 a box board product, and one of these stickies carries  
9 through and goes through the converter where they do the  
10 printing and everything, making cake boxes and all that  
11 jazz, I don't know why it is, but that sticky always ends  
12 up right in the middle of Betty Crocker's cheek when you  
13 print the thing. That's a problem.

14           MODERATOR HUSTON: Thank you.

15           Stu.

16           MR. DOUGLAS: My comments are brief.

17           There is a distinct complaint about me being in  
18 secondary fiber. They thought that I have, as the recycling  
19 effort begins to pick up more and more steam, and we are  
20 mandated to use more recycled products, the fibers are  
21 blended many, many times.

22           Another complaint that I'm beginning to hear from  
23 out in the manufacturing sector, will this continually  
24 drive the quality of our paper down if we use the same  
25 fibers over and over again?

1           If we increase the demand by manufacturers to  
2 pull the recycled paper out of the loop, say in my case  
3 where we take the insulation or custom fibers which is used  
4 as a blend, then we pull that bad fiber consistently out of  
5 the loop, increasing the amount of fresh pulp in the  
6 system.

7           If we do not encourage manufacturers like myself  
8 to purchase the product, then I think we will have a  
9 problem with the quality of the paper in twenty to thirty  
10 years rapidly declining in quality.

11           MODERATOR HUSTON: Thank you.

12           Dan.

13           MR. COTTER: Most of the barriers have been  
14 covered.

15           One that I add is that most of the existing  
16 virgin manufacturers of newsprint are far from urban areas,  
17 quote, "the urban forest" and freight is the biggest  
18 barrier for these mills to convert from using virgin pulp  
19 to use recycled pulp.

20           Most of the mills that are close enough to urban  
21 areas where it's economical to transport are converting.  
22 They are going to add recycled pulping capacity and make a  
23 sheet of 40 to 60 percent recycled content.

24           That means for us in California that our newest  
25 supplies or buyers are going to be in the Pacific

1 Northwest, Oregon and Washington, primarily. It's doubtful  
2 that we will see the mills in Canada far out in the woods  
3 convert from hundred percent virgin to recycled content.

4 Once the close-in facilities convert and buy as  
5 much recycled product as they want to buy and mix with the  
6 virgin, the demand is going to have to come from the new  
7 facilities.

8 MODERATOR HUSTON: Okay. Any questions or  
9 comments from the public?

10 Anybody?

11 Additional questions from the panel?

12 Okay. We'll move to question three.

13 What products or product groups presently  
14 manufactured with little or no old newsprint do you think  
15 represent the greatest potential markets for these  
16 materials?

17 Stu, we'll start with you.

18 MR. DOUGLAS: As you know, my answer is going to  
19 be fairly obvious with my background in construction.

20 The construction industry is notorious for eating  
21 up large quantities of wood products. At this time there  
22 is a push by most of the mills and manufacturers to start  
23 introducing the fibers into the stream so that we can start  
24 using some of these.

25 That's the reason I'm here today. I am a

1 builder, and we have instituted the use of cellulose  
2 insulation in homes.

3 The quantity that the construction industry can  
4 use of recycled products is almost indefinite. It's so  
5 large, it's hard to calculate.

6 As far as particular products that you can see,  
7 you can start almost with the foundation up to the roof of  
8 residential or commercial package, any plywood, any studs,  
9 any sheer stock, exterior siding, cabinets, and on and on  
10 and on.

11 As I said, the possibilities are endless. It's  
12 just a question of somehow instigating a desire by the  
13 construction industry to utilize what we have here.

14 MODERATOR HUSTON: I would assume that your  
15 comments deal not only with old newsprint but mixed paper  
16 as well; is that right?

17 MR. DOUGLAS: Definitely.

18 As a builder, we look at ONP and OCC as wood,  
19 really just as ground wood product. Cellulose being is  
20 fiber, it's quite simple, we use it all the time now.

21 Anyone who has toured a construction site has  
22 noticed obviously a change in the material that we have  
23 been using for the last ten years. Whereas CDX plywood was  
24 quite common.

25 Now you're starting to see a lot of the particle

1 board, chip board, OSP, replacing what had been standards  
2 all my life now with the new processed materials.

3 To answer your question, as I said, there are  
4 numerous products on any construction site that can utilize  
5 the recycled fibers.

6 MODERATOR HUSTON: One question specifically for  
7 you, if old newsprint prices went high enough, would you be  
8 able to substitute mixed paper?

9 MR. DOUGLAS: If my source rises in price,  
10 obviously the product selling does.

11 At what level are we not competitive with the  
12 comparable product, fiberglass insulation. We could take a  
13 rise at this time, yes, and still be competitive.

14 But is it indefinite? The answer is obviously no.

15 MODERATOR HUSTON: If mixed paper prices were low  
16 and old newsprint prices were high, would you be able to  
17 make a substitution?

18 MR. DOUGLAS: Yes.

19 That would be specific to the products that we  
20 manufacture now. I envision as time goes by particle  
21 board, plywood, stud and siding, numerous products can  
22 utilize the secondary fibers.

23 If we start to get into cosmetic areas, facing on  
24 the cabinets or whatnot, particular areas that are  
25 sensitive to being looked, you will not be able to

1 substitute lower grades of fiber.

2 To answer the first question a little closer, it  
3 is really product specific on what type of grade we will be  
4 able to use. Some products, such as hydroseeding mulch, a  
5 factor of landscaping, can use almost any grade of paper.

6 As we get into the area where we need structural  
7 integrity, we have to be careful as to what type of grade  
8 we use.

9 At that point, we will want as fine a grade as  
10 possible and that costs more.

11 MODERATOR HUSTON: Okay.

12 Dan.

13 MR. COTTER: I will not get too much into the  
14 different uses for ONP. There are many. The insulation  
15 that Stu was talking about, animal bedding is another one  
16 that people promote as a large user of this, packaging  
17 products, et cetera.

18 I would like to bring up the thought that there  
19 is some promoting of cross-purposes of the Integrated Waste  
20 Management Board's policy for the highest use of recycled  
21 commodities to send special things like corrugated and  
22 newsprint and fine writing paper towards construction  
23 products.

24 Although they were used, they are used in a way  
25 that pulls them out of the loop for long periods of time,

1 and probably puts them in a form that could never be taken  
2 back into the papermaking loop because of the glues and  
3 other things that will be used to bind the wood chips  
4 together to add the strength and integrity especially for  
5 construction materials.

6 There needs to be some thought to what is being  
7 promoted and what kinds of effects that it may have on the  
8 overall market.

9 Certainly the market place will answer some of  
10 those questions as the price for the higher quality fiber  
11 containing products is sought after by manufacturers that  
12 want to make more corrugated or newsprint or whatever, they  
13 will probably drive the price up to a level that people  
14 that are using it as a substitute for wood chips will  
15 convert to mixed wastepaper, but those are not sure bets.

16 That's something that I don't think anyone has  
17 thought about over the long haul, what kinds of effects  
18 promoting heavy use of paper fibers by the construction  
19 industry will have on the paper fiber in the using  
20 industry.

21 We are very successful in converting a lot of  
22 construction products to utilize paper. Will there be  
23 paper available for the paper industry that is under  
24 mandate to produce recycled paper?

25 MODERATOR HUSTON: Thank you.

1 Bill.

2 MR. NIELSEN: From the export scenario, a couple  
3 of the product groups that are primarily made out of virgin  
4 material would be the higher end packaging commodities.  
5 Things like pharmaceuticals and perfumes, for example, that  
6 are made usually from 100 percent virgin coated materials.

7 These are areas whereby, again, depending upon  
8 the end user, more and more recycled content could be used  
9 either by new developments, say a -- and this isn't out to  
10 the best of my knowledge yet, but a paper board machine  
11 that could make the same quality on both sides with a  
12 center layer or on a three-ply machine, inserting old  
13 newspapers and having coating on both of the sides.

14 There have been some projects looked at there but  
15 nothing has become reality.

16 In the Far East there still is a vast amount of  
17 areas, again, in the packaging field, whereby I think that  
18 a lot of the virgin solid beach board could be replaced. A  
19 lot of the other products are still made of secondary  
20 fiber, from printing and writing paper to newsprint mills.

21 Perhaps we could see a little bit more increase  
22 in Japan in their newsprint mills. They do buy a lot of  
23 chips and use wood chips from usually Canada and the  
24 Northwest to make their material.

25 Also, I think we could see more end uses in



1 magazine paper or lightweight coated paper. We see a lot  
2 of this in Europe. We have not seen the technology. The  
3 mills are starting to a small degree here in the states,  
4 but we haven't seen the Scandanavian mill yet utilizing  
5 secondary fiber to make either super calendar or glazed  
6 paper, as they call it, or lightweight coated paper or  
7 magazine paper as they call it.

8           There were some projects being looked at in  
9 Arizona, but I don't think they will become a reality.

10           MODERATOR HUSTON: Thank you.

11           Harry.

12           MR. MILLER: Diverting fiber from a recycle to a  
13 reuse, we are are looking a little bit at definition here.

14           Reuse, you're taking the ONP and making building  
15 products with it. Recycled, you're using ONP and making  
16 ONP with it or making it into something that you can  
17 recycle, using it over and over again.

18           This is something that the environmental  
19 community has been vehemently opposed to reusing something,  
20 in other words, converting it in form, and they are very  
21 much in favor of recycling something, or reusing it over  
22 and over again.

23           I see people shaking their heads. That has been  
24 my experience. Rick from Californians Against Waste could  
25 refute or support me, whatever.

1           In doing the reuse, I'm foreseeing it going into  
2 building products because I would like to see the price go  
3 up.

4           In many instances, I think from what I see, it  
5 might be worth while to revisit the past. In the early 80's  
6 or late 70's, I was in a box board mill in Texas, in  
7 Dallas, that had an old building associated with it that  
8 they called the egg plant.

9           You can you go there and there are machines that  
10 had been there for, gosh, I don't know how long, but they  
11 were out of production for several years at that time. What  
12 they had been for was taking newspapers and making egg  
13 cartons. They were put out of business by the stryofoam  
14 people.

15           I think I see a little bit more of the paper  
16 being used in going back to making egg cartons. Revisit  
17 the past.

18           MODERATOR HUSTON: Okay. Any comments?

19           Bernie.

20           MR. MEYERSON: Two quick comments.

21           One comment is that if one barrier to encouraging  
22 the highest use is very often the nature of the contract  
23 that is developed between the public agency and the  
24 recycling entities, whether that be the waste hauler in the  
25 community.

1           If there is no built-in incentive for the waste  
2   hauler, or whoever the collector is, to maximize the value  
3   of the material that he is collecting, then there will be a  
4   tendency to take the easy route and slough it off in the  
5   lowest acceptable form to avoid the additional expense of  
6   upgrading.

7           One thing that has to be dealt with, public  
8   agencies have to be very aware of this and factor into  
9   their contractual arrangements this concept of encouraging  
10   the highest and best use of the material. That is one  
11   comment.

12           The other comment picks up a little bit on what  
13   Stuart Douglas said, that the nature of cellulose fiber is  
14   slightly different from metals and glass, the level of  
15   fiber degradation with each subsequent use, yes, other  
16   materials degrade, and there is always a slight loss, you  
17   never get 100 percent out of glass or metals, but the  
18   degradation is slower.

19           We can always expect or anticipate or plan for as  
20   desireable this combination of recycled contents with  
21   virgin use so that the fiber strain and yield remains high.

22           There are some buyers of OCC that do not want any  
23   of the OCC coming from Taiwan. They do not like the yellow  
24   box for a variety of reasons.

25           One reason is that the fiber yield from the boxes

1 is quite low compared to other things. One reason why the  
2 material from the United States, why wastepaper from the  
3 United States is so valued is precisely because it has a  
4 high fiber yield and so much is virgin fiber.

5 We have to recognize the inherent limitations of  
6 cellulose as far as continued use.

7 MODERATOR HUSTON: Thank you. Any other  
8 comments?

9 MR. DOUGLAS: If I could expound on that a little  
10 bit.

11 One obvious result of the degradation of fibers  
12 that we see at the cellulose plant is the amount of dust in  
13 the air. The question that I have to the other panelists  
14 and people here in the room, and that is, ultimately what  
15 are the chances of using 100 percent recycled stock?

16 As I said earlier, the manufacturers that we have  
17 discussed this with, they encourage a blend of virgin and  
18 recycled paper because of the degradation of the fiber. As  
19 the fiber gets smaller and smaller, getting through the  
20 equipment, then there is a problem.

21 Any comments on that, I would love to hear.

22 MODERATOR HUSTON: I think that both Harry and  
23 Dan may have comments on that.

24 MR. COTTER: I'm not exactly sure what you're  
25 asking.

1 MR. DOUGLAS: What are the possibilities if we  
2 intend to go to 100 percent recycled ONP, is that a  
3 possibility, or is this a dream?

4 MR. COTTER: Well, there will always have to be  
5 injection of virgin fibers somewhere in the papermaking  
6 process to continue to make paper because the fibers will  
7 continue to break down.

8 If you close the system completely and try to use  
9 the same fiber stock to make recycled paper from, you would  
10 run out of fibers you could utilize. There will always be  
11 some injection of virgin fibers somewhere, either by having  
12 a paper that is only certain percentage recycled and  
13 certain percentage virgin, or 100 recycled paper that has a  
14 supply line that has 100 percent virgin paper in the supply  
15 line to continue to bring in the stronger fibers and longer  
16 fibers from the virgin in the production.

17 I don't think there is anybody in the paper stock  
18 industry that feels you can close the system and continue  
19 to recycle fibers without running out. You have to have  
20 some injection of virgin.

21 MR. DOUGLAS: Great.

22 One other question that I had, and I would love  
23 to hear some response, as Dan mentioned the fact that if  
24 somehow the construction industry were able to increase the  
25 demand and utilize the fibers in manufacturing of

1 construction products, what is the possibility of that ever  
2 happening to completely deplete the source?

3 My thoughts on that is that the chances are  
4 really negligible. We have such an over abundance of ONP  
5 and other types of recycled paper. We would ultimately  
6 like to look at a benchmark where manufacturers like myself  
7 are pulling out of the loop permanently the degraded fiber  
8 which is being replaced by the virgin fibers to have a  
9 balance.

10 MODERATOR HUSTON: Any other thoughts?

11 MR. COTTER: Never say never. We do not know  
12 what is going to happen.

13 My point was not a fear that the construction  
14 industry would pull so much fiber out of the waste stream  
15 that there would be none available for the manufacturers of  
16 recycled paper products.

17 The point I was trying to make was that in  
18 promoting alternative uses for ONP, such as animal bedding,  
19 insulation, making wall board or construction products,  
20 whatever, is there may be some misleading of some of these  
21 industries, they see the price today, they see the  
22 over-abundance today, they say, great, we're going to get  
23 into this business and utilize this product.

24 I think that anybody who gets into that industry  
25 must realize that somewhere down the road with minimum

1 content laws, especially in newsprint, you're going to have  
2 a large draw from newsprint manufacturers using recycled  
3 newsprint, are going to put tremendous pressure on the  
4 collection system to draw their supply.

5 It most likely will eliminate any low value uses  
6 of newsprint, like insulation, and some construction  
7 products. That means those groups are going to have to go  
8 after lower and lower quality paper to get supplies.

9 If you set up your system based on ONP and the  
10 price goes from \$30 to \$40 to \$60 to \$130 a ton, as  
11 insulators drove the price up 12 or 13 year ago when  
12 insulation became the hot thing to do, you find yourself in  
13 trouble.

14 The state would do a disservice by heavily  
15 promoting the use of ONP for all of these alternative uses  
16 without letting people know that they also are promoting a  
17 cross-purpose by saying we want minimum content newsprint,  
18 which means we want you to go use all of this stuff but, by  
19 the way, we're encouraging your competition very heavily on  
20 the other side.

21 I just want people to be aware that that is an  
22 issue. The market place is going to figure it out, but we  
23 should not mislead people as to what we're trying to do  
24 here.

25 Before we get off the subject, I should probably

1 ask this about question two, Bill, the effects of the  
2 increase in recycled collection in the Far East, what kind  
3 of effect does that have on our ability to sell recycled  
4 products in the Far East?

5 I'm thinking back on an article in Fiber Trading  
6 three or four months ago, the domestic collectors in Taiwan  
7 wanted to stop all imports of wastepaper from the U.S. to  
8 protect their local collection.

9 Do you see that a trend, or what effect that may  
10 have in the future for us?

11 MR. NIELSEN: I think that the Japanese, as far  
12 as I can see in Japan, the Japanese collection rates are  
13 almost at the top. As the Japanese society gets more  
14 affluent and gets or is further removed from the old  
15 culture and into our, quote, unquote, "Western culture,"  
16 people who even collect secondary fiber think it's not  
17 worth it any more, or too dirty a business to get into.

18 Korea has increased their collection. Taiwan, I  
19 remember four months ago they had a protest in  
20 Taipei, but I think that's caused more, not necessarily by  
21 the U.S. secondary fiber, although, blaming the U.S., the  
22 past year has seen massive quantities of Dutch and German,  
23 mainly mixed paper, ONP to a certain degree and their grade  
24 of corrugated which is lower than ours, go in very large  
25 quantities to Taiwan and Korea, thereby effecting the value



1 usually on a negative scenario of our fiber.

2 This should continue because Germany is  
3 collecting 6.2 million tons and their consumption is about  
4 5 million tons. So, they alone have a million tons.

5 It will not hinder us to a large degree because  
6 of the fact that the mills realize that the fiber value of  
7 the U.S. paper stock is still the highest in the world. The  
8 yield off the fiber, be it old newspaper or whatever grade,  
9 exceeds the yield of their domestic secondary fiber and  
10 European secondary fiber.

11 I see the increase, but it will not happen as  
12 fast, but we will see more and more increase for all grades  
13 of secondary fiber in Asia.

14 MODERATOR HUSTON: Is that yield greater for the  
15 U.S. because more of our fiber is virgin?

16 MR. NIELSEN: Yes, that's correct.

17 MR. COTTER: When we increase our production of  
18 recycled content paper, what is the scenario?

19 MR. NIELSEN: It will be taken care of as it has  
20 been in Europe when it comes to the coated papermakers who  
21 are some of the best in the world, chemical bonding agents,  
22 fillers into the paper of anywhere between 5 and 25  
23 percent, that could suffice to make a sheet, a newsprint  
24 sheet, similar to that of a virgin. I do not see it as  
25 being a big deterrent.

1           We have worked with chemical companies on certain  
2 problems in secondary fiber. My brother spent a lot of  
3 time, and a lot of these chemical companies do not know  
4 where to start.

5           Within the paper industry they have a wealth of  
6 knowledge, we find, but they do not know how to get in and  
7 reach the problem unless the problem is brought to them.  
8 They are not necessarily the typical chemical people that  
9 are involved on the day-to-day with the paper mills or have  
10 been in the paper business many, many years. We have found  
11 four or five big one's out there that said, yeah, we will  
12 try to solve wet strength problems.

13           We have been working ourselves with the  
14 flexigraphic ink problems. They have come up with a  
15 solution. It's a conservative industry. In the paper  
16 business, it's very difficult to change a papermaker. It's  
17 very difficult to change a pressman at a printing plant.

18           Very conservative industry. No, it doesn't  
19 work. Prove it to me. Lay it out type of scenario.

20           I do not foresee a problem for the next 20 years  
21 in regards to the degradation of the fiber. ONP could be  
22 recycled five to six times using 100 percent. Yes, fiber  
23 is going to get shorter, but the fillers or chemicals will  
24 rectify the situation.

25           MR. FORAN: One thing I wanted to share with

1 Stuart, to give you an idea of what kind of impact a mill  
2 like MacMillan Bloedel would make on demand here, and how  
3 it would effect market price, presently in-state demand for  
4 news is 377,000 tons a year. The MacMillan Bloedel mill in  
5 the first phase would consume 210,000 tons, which is well  
6 over half of what is already consumed in this state.

7 You could see what an immediate impact that would  
8 make at least in terms of market price. Availability, the  
9 material is always there for the price. It would change  
10 the economics of use for ONP for your type purposes.

11 The other thing I wanted to mention, the Smurfit  
12 Newsprint mill in Pomona does manufacture a 100 percent  
13 recycled sheet. It's the only major newsprint producer  
14 here on the West Coast that does make a 100 percent  
15 recycled sheet.

16 MODERATOR HUSTON: Let's take a break for ten  
17 minutes.

18 (Thereupon a brief recess was taken.)

19 MODERATOR HUSTON: Okay. We're going to get  
20 started again.

21 Question number four, we may have addressed some  
22 of the issues in this already. I know that Bill will be  
23 back momentarily. I think that Dan needs to leave for a few  
24 minutes and may not be here for the discussion.

25 Question number four, what are the most common

1 and most detrimental quality-related problems with using  
2 old newsprint?

3 We have talked about these to some degree. If  
4 there is anything that any of the panelists would like to  
5 add to what has already been said, here's a good chance to  
6 do it.

7 MR. MILLER: I will pick up on it just real quick  
8 to say that I can't say it enough, the problem with ONP is  
9 glass.

10 Since more and more of the ONP is coming from  
11 curbside programs, those programs have to be developed in  
12 such a way to keep the glass out of the newspaper. It can  
13 be done.

14 Even in commingled systems, the newspaper can be  
15 kept separate. Some people are looking at putting it into  
16 fiberglass bags, and throwing that in with it and then it's  
17 later sorted.

18 We find in operating a commingled system that our  
19 greatest expense is separating the paper from the other  
20 recyclable commodities. If we can keep it separate to  
21 begin with, it reduces our sorting costs immensely, which  
22 makes the whole system a lot more feasible.

23 The other contaminants coming from the curbside  
24 are people tending to mix any trash with the material,  
25 somewhere along the way people, we have to educate people

1 to realize that there are different kinds of paper.

2 Your envelope is not the same kind of paper as  
3 newspaper. Your cereal box is not the same kind of paper  
4 as your cardboard box.

5 There are identifiable grades of paper. Mixing  
6 them altogether creates a problem. Getting any of them in  
7 with newspaper also creates a problem.

8 Other than that, we have touched on a lot of the  
9 contamination issue.

10 MODERATOR HUSTON: Thank you.

11 Stu, anything to add?

12 MR. DOUGLAS: Yes.

13 I would say as far as my status as a manufacturer  
14 in utilizing the ONP, the quality related problems that I  
15 typically see, number one, is the moisture content, which  
16 would have to be addressed by the curbside recycling  
17 program.

18 When I purchase the ONP, obviously weight is a  
19 distinct factor. The product or ONP is coming into the  
20 facility and has been wetted by rain or the moisture  
21 condensation in the air, we end up paying a lot of hard  
22 money for water.

23 It's difficult for the machinery we use to  
24 process paper that is excessively wet.

25 The other two items that I mentioned earlier

1 would be the factor of the inks that are used as well as  
2 the staples which are generally found with the inserts.

3 We have started to contact some of the local  
4 papers, ie., Sacramento Bee, to discuss this situation.  
5 We're going to proceed and push ahead as hard as possible  
6 so that the actual paper product arriving on-site at our  
7 plant is designed to be sent to that equipment.

8 I mention those items, the water, inks and metal  
9 staples all need to be addressed so that purchasers, as  
10 myself, can receive a product that is compatible with our  
11 equipment.

12 MODERATOR HUSTON: Thank you.

13 Bill, we're on question four, and some of these  
14 questions we have talked about, the quality-related issues.

15 If you have anything to add, please do.

16 MR. NIELSEN: No.

17 I can't foresee too many things in the  
18 quality-related problems that we find domestically are  
19 basically found in the Far East. Moisture is of utmost  
20 concern, being when old newspaper gets moisture, it has a  
21 tendency, depending on how long it's put in inventory to  
22 mildew, and mildew can never come out of the recycling  
23 process.

24 It's bothersome to any paper mill. The other  
25 one's would be almost the same as already discussed.

1           MR. DOUGLAS: I would like to reiterate what  
2 Harry mentioned earlier on the difference between the  
3 curbside programs considers versus other types of  
4 collection, commingled or whatnot.

5           The quality of paper that we see here in  
6 Sacramento which is derived from the curbside is much  
7 higher than anything we see from a MRF or commingled  
8 source. If Sacramento had gone to a MRF, per se, and we  
9 had any type of contaminants, we would not have located in  
10 this area.

11           It's very important to realize the difference in  
12 collection types, as one which will benefit a recycler and  
13 manufacturer and one which will not. I underline and  
14 approve the system that we have here in the Sacramento  
15 area.

16           MR. FORAN: I have a question for Harry.

17           With your experience in collecting ONP, what is  
18 the prevalence to stickies or self-adhesive labels on  
19 newsprint. It doesn't seem like there is that much of it.

20           When I picture your daily paper, I can't picture  
21 any stickies.

22           How big a problem is that in marketing?

23           MR. MILLER: It's a relatively large problem.

24           It doesn't come from the ONP. The stickies come  
25 from junk mail, with gum labels. They come from pressroom

1 waste, with the tapes used to splice the paper together,  
2 and, in fact, in deinked news, there is one of the  
3 qualifiers in the paper status that says you will not have  
4 any pressroom waste in there.

5 I'll guarantee that everybody puts it in there if  
6 they have a paper handy to get it from. That's the main  
7 source of the sticky.

8 What happens, when that gum does get in there,  
9 it's not defacing Betty Crocker that's a big problem for  
10 the newsprint users, but what their problem is when the  
11 newsprint is formed and run across a series of dryers that  
12 are big rollers with steam running through them that  
13 actually dry out the pulp when you're in the process of  
14 making the paper, and you wind this thin newsprint  
15 altogether off the end of the machine.

16 Well, this glue is hot as it goes through there  
17 and comes off these steam rollers, and it adheres to the  
18 sheet above and below it. So, when it gets to the  
19 newspaper and they are trying to run it on the machine,  
20 it's cooled done and now it's adhered.

21 When it hits that point on the roll of paper,  
22 pop, it breaks it. It shuts them down on their high-speed  
23 presses. They don't like that at all.

24 Does that answer the question, Brian?

25 MODERATOR HUSTON: Any comments from the



1 audience?.

2 Bernie.

3 MR. MEYERSON: I just want to quickly mention,  
4 sunbleaching can be a problem.

5 Not so much with the collection but what happens  
6 after collection, particularly in some small locations  
7 where the paper is kept outside and unbaled for a long  
8 time.

9 The sunbleaching does degrade the fibers. It's  
10 specifically excluded in the standards.

11 The other thing is contamination with things like  
12 food oils and things if it comes in a mixed situation.

13 MODERATOR HUSTON: Okay. The next question,  
14 number five -- any other comments from the audience?

15 MR. FORAN: I had a question for Bernie.

16 You mentioned that the grade specifications  
17 specify that the pressroom waste, sunbleached paper is not  
18 allowed, are you referring to the PSI standards or is this  
19 another?

20 I don't recall seeing any reference to  
21 sunbleached paper or pressroom waste in the deinked news  
22 standards grading.

23 MR. MEYERSON: The sunbleaching is in the PSI.

24 MR. MILLER: Pressroom waste or over-issue paper  
25 is in PSI or whatever.

1           MODERATOR HUSTON: Okay. Question number five is  
2 one that I think we at the Board are particularly  
3 interested in.

4           What activities or programs would be most  
5 effective for us to pursue to assist ONP market  
6 development?

7           Are new government programs needed? If so, at  
8 what level?

9           Secondly, what can industry do to aid market  
10 development?

11           Bill, I would like to start with you on that one.

12           MR. NIELSEN: Since we have another ten or twelve  
13 hours, I guess I could -- what activities?

14           A couple of different ideas. The U.S.  
15 Agriculture Department in Washington, D.C., has a program  
16 called GS-7102. We have shipped overseas pulp to countries  
17 that are, who are financially unable to pay unusual  
18 commercial terms.

19           Ithe U.S. Government guarantees 98 percent of the  
20 receivable to the qualified exporter of goods X, Y, Z,  
21 thereby allowing payment terms to the end user. We don't  
22 see this too much in the Far East, but maybe in China and  
23 some of these areas, depending on the economies, where the  
24 client has between one and two years to pay back the  
25 receivable.

1           Where the commercial company or the exporter  
2 cannot withstand these terms, programs like this, we see in  
3 lumber, wood pulp, many are discussed while in Washington,  
4 D.C., we have a solid waste program, it seems to me that  
5 this type of concept could obviously perhaps spur on  
6 additional usage of the grade, if in fact one could offer a  
7 guaranteed longer payment terms, be it on a governmental to  
8 governmental level.

9           It's usually financed by an opening bank, usually  
10 the governmental banks as in the case of China. The  
11 majority of other countries are usually private, huge  
12 banking organizations, whereby the allowable payment terms  
13 or extended payment terms could perhaps be underwritten,  
14 and the program seems to work well.

15           This has to do with anything in agricultural and,  
16 of course, from Washington, D.C.'s level they consider  
17 forestry to be agriculture, everything from wheat, soybean  
18 all the way on down.

19           What else could -- I think, do we look at how can  
20 we best get to the public to educate them better as to the  
21 quality standards required. I guess it's not a large PR  
22 blitz, if you will, in regards to the different quality of  
23 old newspapers or subsequent -- I don't want to use the  
24 word advertisements, or subsequent news releases that the  
25 State of California has recycled X-amount more tons within

1 a year after year period, using these quality standards and  
2 getting it in front, whether it's free newspaper publicity,  
3 I don't know.

4 Perhaps pointing out that the quality of fiber is  
5 of utmost importance to the end use, be it in newsprint or  
6 paper board or construction materials.

7 Are any new government programs needed and at  
8 what level? No.

9 We all agree that private industry does not like  
10 government mandating the industry. Our private industry in  
11 the United States, and I assume worldwide.

12 We have a solid waste problem. Paper, of course,  
13 I don't know, Brian, how much your department has looked  
14 into how secondary fiber degrades itself in the solid waste  
15 stream, but I believe that it does degrade itself in the  
16 "landfill," quote, unquote, so it does break out.

17 Aside from, we're just talking about old  
18 newspaper, but that will disintegrate. I know we're trying  
19 to solve a problem, and that is the solid waste problem.

20 No, I do not think there are -- the advent of the  
21 40 percent recycled content came fast. It cost the mills  
22 millions and millions and tens of millions of dollars.

23 I try to look at two different sides of the  
24 story. Yes, everyone goes through good cycles, be it paper  
25 mills, banks or whatever industry we're looking at. It

1 comes fast and seems to be working, and it is gobbling up  
2 more and more of the old newspaper that had been discarded  
3 in our trash cans, for all intents and purposes.

4 Yes, we do have too much of the commodity, but I  
5 think that the industries got to, we have to have better  
6 economic times. If we put another mill domestically, it  
7 hurts the industry more than helping it.

8 We're going to see more bankruptcies of perhaps  
9 public but private secondary fiber dealers that have been  
10 in business for a long time, and we will have to deal with  
11 that.

12 I don't think there is any more governmental  
13 programs. More and more usage. If we look at solid bleach  
14 board, if we get the end user, the perfume companies or  
15 pharmaceutical companies or the computer companies, as I  
16 was reading on the plane up, such as Apple Computer and  
17 Hewlett Packard who have now switched to unbleached  
18 cartons, but could we get the Revlon's of the world to say,  
19 yes, we'll use recycled, like Nabisco does.

20 They use recycled cartons for the Ritz crackers.  
21 Of course, that's enclosed in a bag. You get into the FDA  
22 situation, which they do have very stringent rules and  
23 regulations.

24 I just looked into it on making a recycled paper  
25 plate from old newspapers and magazines, but it had to be

1 coated with a Patented coating that when food touched it,  
2 it would not do no harm to the person eating the food.

3 There are some other areas from the virgin  
4 packaging side in relation to old newspapers that could  
5 come into play.

6 MODERATOR HUSTON: You mentioned the U.S.  
7 Department of Agriculture program.

8 Do you know if that now applies to secondary?

9 MR. NIELSEN: It doesn't.

10 In our dialogue two years ago, we wrote a letter  
11 to the Acting Administrator, whether he's still in the  
12 position or not, I don't know, but they said, no, secondary  
13 fiber does not, it is already processed so it doesn't come  
14 under the agricultural scenario.

15 MODERATOR HUSTON: Thank you.

16 MR. FORAN: I wanted to exchange comments with  
17 Bill. I looked into the FDA issue as well.

18 It's a tough issue to understand because of the  
19 volumes of the regulations out there. From what I gather,  
20 there is no regulation prohibiting food contact with  
21 recycled content paper, whether pre or post consumer.

22 I can cite some products out there that have  
23 direct contact with food. Whether they are in violation of  
24 regulations or not, I can't say 100 percent for sure, but  
25 they continue to manufacture the products this way.

1 I use some of the products everyday.

2 MR. NIELSEN: But not when it comes to a  
3 hamburger.

4 In my study, done through law firms, not at our  
5 request but the Board's, where if the particle seeps  
6 through the coating, you can take a paper plate and put it  
7 on the shelves of the supermarket, for example, and say it  
8 was 100 recycled, which in Europe they are doing it, but if  
9 those two plates rub together and any type of metallic  
10 fiber comes through the coating or through the fiber,  
11 obviously it can have detrimental -- some people say they  
12 can make quality board where you can eat the board better  
13 than the food in some cases, but in the paper plate market,  
14 and paper cups, you could go on and on --

15 News would be a very good raw material in  
16 conjunction because it's a board type of material, but they  
17 were taking it down to the particles per billion, and to  
18 get with the FDA takes a long time, unless you have the  
19 right law firm working on your behalf.

20 MR. FORAN: I would like to exchange notes with  
21 you.

22 FDA has done some research and put out some  
23 reports that are understandable to the layperson regarding  
24 plastics in food contact applications. We should exchange  
25 notes on this.

1 MR. MILLER: I agree with Bill.

2 I get a little apprehensive when I hear someone  
3 say, I'm with the government, and I'm here to help you.

4 There are programs that I suppose could come  
5 about. There seems to be a difference of direction these  
6 days rather than looking for ways to regulate it looks like  
7 a big forum, such as this, are looking for ways to help.

8 It's to be commended. The whole attitude on the  
9 Integrated Waste Management Board since its formation is  
10 one of help rather than one of just regulation. I'll give  
11 you a kudo on that.

12 Programs that could be put in place would be  
13 anything to help educate the public, be it advertising or  
14 support, brochures, flyers to support, particularly the  
15 municipalities and their educational portion and SRRE and  
16 what have you. Give them as much as finances allowed to  
17 support them.

18 A standardized definition of materials, what  
19 we're trying to accomplish, to give them a better overview  
20 of the whole thing.

21 One thing that may or may not be of use, to my  
22 way of thinking, is to sponsor forums within industries.  
23 Some years back I spend some time, at Smurfit Newsprint,  
24 when I was on the collection side of the industry, we had a  
25 labor problem.



1 I worked at night with a lot of the fellows up  
2 there in the mill that were involved in the paper  
3 production end. It was the first time that the two  
4 divisions in the company came together and talked to each  
5 other.

6 A lot of the things that I was out doing in the  
7 field were actually detrimental to the mill, and I didn't  
8 know it. A lot of the things that the mill wanted, and  
9 they couldn't understand why we weren't doing it, we didn't  
10 know they wanted it.

11 They thought we were just being obstinate. But  
12 there were real reasons that we couldn't supply what they  
13 were asking for in some areas. So, there were some levels  
14 of communication there that did not seem to be crossed, and  
15 that was within one company.

16 Just sponsor forums and bring people together  
17 within the industry to share information and solve some of  
18 the problems. Just letting people know what the problems  
19 are because we don't know as well as we think we do.

20 MODERATOR HUSTON: Thank you.

21 MR. DOUGLAS: As far as activities to assist  
22 market development, as I mentioned earlier, I was bothered  
23 by the fact that the Federal Recovery Act was sunsetted so  
24 quickly, because I thought, particularly as a manufacturer,  
25 it had a tremendous benefit for people in my shoes which

1 manufacture the recycled products.

2 So, possibly the state could take the lead from  
3 the Feds and mandate some type of a Recovery Act similar to  
4 RCRA so that percentages of recycled goods are not forced  
5 but encouraged to be purchased within the State of  
6 California.

7 As far as the issue of education, I think that  
8 goes hand in hand as far as with the industry or with  
9 state. The more people who are aware, the more they are  
10 going to be encouraged to purchase what they think is  
11 correct.

12 Those two items, I would say. Some type of a  
13 state mandated purchase program, as well as assist to the  
14 industry with advertising so that people are aware of the  
15 fact of what is available out there and at what price.

16 MODERATOR HUSTON: The state mandated, are you  
17 suggesting that for state agencies procurement?

18 MR. DOUGLAS: Yes.

19 Similar, as I said, take a lead from the Resource  
20 Conservation Recovery Act, and it could be set up in  
21 similar style.

22 Once that did hit the streets, I noticed a  
23 tremendous increase in demand.

24 MODERATOR HUSTON: Okay. Anything that any of you  
25 might have in terms of what industry can do for market

1 development? Any ideas or comments?

2 I don't want to force an answer here if there  
3 isn't one.

4 MR. DOUGLAS: My point, as I mentioned, as part  
5 of our advertising budget, we are attempting to educate the  
6 architects, educate the contract associations and,  
7 therefore, educate the public on the benefits of using  
8 products made with manufactured items, in our case the  
9 recycled fibers.

10 It's pretty straightforward with us. The more  
11 educated the public is about the products that we sell, the  
12 more apt they are to purchase what we manufacture.

13 MODERATOR HUSTON: Thank you.

14 Any comments?

15 Bernie.

16 MR. MEYERSON: Just one quick comment on that,  
17 what industry can do, picking up on what Bill said about  
18 packaging, although I perceive it being rather difficult  
19 since a lot of paper companies are vertically integrated in  
20 forest products and have the virgin there, too.

21 It's been a general tendency in industry to let  
22 the end user pull, in other words, if the end user wants  
23 that virgin white box for the pharmaceutical, sure,  
24 whatever you want.

25 There is a great market value now in marketing

1 green. But out there, my perception of it out there is  
2 that it's the end using company that is pulling with the  
3 green idea. They are going to the paper pills and saying,  
4 we want a box with recycled content. We want to switch.

5 I don't know whether you can actually get the  
6 paper company marketing people to encourage them to start  
7 marketing green. Maybe they would be interested in that.

8 That would help in terms of active marketing. In  
9 general, although it doesn't apply to news, but things like  
10 stickies, and I think Stuart pointed out, there is not a  
11 very good relationship between kind of paper products  
12 produced and their ultimate recyclability back into the  
13 loop.

14 Maybe there needs to be communication there  
15 between the product developers and the ultimate  
16 recyclability of the material.

17 MR. MILLER: A good example of the lack of  
18 communication, as you're talking about, dealing in Port  
19 Angeles with the company that makes the paper for telephone  
20 books, they put in a tremendous process there to handle the  
21 hot melt glue on the telephone books at the exact time that  
22 Pac Bell was going through a massive program of changing  
23 from hot melt glue over to water base glue.

24 The water base glue that they came up with at Pac  
25 Bell is not compatible with the system that they use. They

1 crossed in the night.

2 MR. FORAN: This is the question for Bill  
3 Nielsen. You mentioned that there is a problem with the  
4 oversea mills, and I imagine with the domestic newsprint  
5 mills, with the flexigraphic inks, and you mentioned that  
6 likely it's a problem that the chemical manufacturers can  
7 handle.

8 My question to you is can we really expect that  
9 to happen in an appropriate time frame, or could the state  
10 assist in facilitating communication for the right hand to  
11 know what the left hand is doing?

12 MR. NIELSEN: We will see it, depending on the  
13 recycling process one has at the mill. Usually many people  
14 put in flotation systems versus washing systems versus  
15 washing and flotation.

16 The problem in regard to ONP is no more than at  
17 10 percent of maximum at the moment printing in regards to  
18 volume, so it's not a large quantity, but a little bit  
19 spoils a lot when it comes to the recycling process.

20 It doesn't effect paper board. It just effects  
21 newsprint. In a year's period of time, we could see a  
22 solution to the problem.

23 I wouldn't think that -- I think that  
24 commercially it should solve itself.

25 MODERATOR HUSTON: Any other comments from the

1 audience?

2 Question six, are the standard industry  
3 definitions for old newsprint adequate, or do you think  
4 that further refinement of these definitions is necessary?

5 This was clearly an issue with mixed paper, and  
6 we're wondering if there are similar concerns or  
7 improvement necessary for newsprint.

8 Bill.

9 MR. NIELSEN: When buying and selling any grade  
10 of secondary fiber, you have to have a basis with which to  
11 start, be it domestically or export.

12 We reviewed this at the Paper Stock Institute  
13 when we saw, three years ago, perhaps, the advent of the  
14 municipally collected news and the lowering of the quality,  
15 i.e., the increase of contamination that was being  
16 generated.

17 There is some thought to perhaps reclassifying a  
18 grade lower than PS No. 6, which is in essence board mill  
19 news, but it hasn't been put down or discussed. It may be  
20 discussed in November at the Paper Stock Institute's annual  
21 meeting in Florida.

22 One could look at it from the standpoint of each  
23 specification is different for each paper mill, so,  
24 therefore, the supplier would try to pack that grade.  
25 That's more to a one-to-one basis.

1           We need some sort of guidelines to trade around  
2 the world for the grades of paper. Realizing that the  
3 paper industry goes through its cycles, it's usually two to  
4 three years, depending upon the amount of tonnage being  
5 generated.

6           Obviously, municipally collected news is just  
7 massive. Before the industry gets around to providing a  
8 reasonably accurate definition that the source can package,  
9 we'll pack that quality, too.

10           No, I don't think -- it's being looked at, but in  
11 regards to news, I don't think that a further refinement of  
12 the definitions are necessary.

13           Now, you could have a hundred mill people in the  
14 room, each would fire their own, let's get rid of  
15 flexigraphic, I want the inserts out, the plastic bags are  
16 driving me crazy, and speaking about stickies, the Wall  
17 Street Journal, which the second largest printed paper in  
18 America, I guess, does have the sticky labels when it comes  
19 to everybody's office.

20           In the recycling process, as well as junk mail  
21 which is even larger, that does get in there and raises  
22 havoc. It is under study, but I don't think that a review  
23 of the definitions is necessary.

24           I'm speaking as a nation, as well as California,  
25 secondary fiber is coming from so many other states that

1 you have to have some standards to base your quality on,  
2 otherwise you'll be fighting with every paper mill, fifteen  
3 paper mills in Korea, ten up here, and the claims, which  
4 are unfortunately inherent in our industry, would become  
5 more detrimental to the exporter than they already are.

6 MODERATOR HUSTON: You're saying that the  
7 standard definitions now give you a starting point, but you  
8 still need the one-on-one negotiation with your purchaser  
9 and your supplier.

10 That is the same thing as Harry said, he has  
11 three customers demanding the same thing, but each one has  
12 a different mix.

13 Anything to add, Harry?

14 MR. MILLER: I agree with Bill, 100 percent.

15 In fifteen years of buying and selling newspaper,  
16 I don't think that I have ever bought or sold any grade 7.  
17 I did 6 and 9.

18 The standards are there. Again, it's coming back  
19 to dealing with your customer and knowing what your  
20 customer wants. I think that Bernie will attest that  
21 grading paper is an art as opposed to a science anyway.

22 Essentially, the definitions as they stand are  
23 more than adequate. From my perspective as a collection  
24 program right now, I think one is plenty.

25 MODERATOR HUSTON: Okay. Stu.



1 MR. DOUGLAS: I feel that the grades that we have  
2 right now are adequate.

3 My only concern is that as time goes on and the  
4 curbside recycling programs have more and more effect, and  
5 receiving a percentage of recycled fiber that goes higher  
6 and higher, at some later date we may want to address  
7 that.

8 If we have paper that has a high recycled content  
9 in it, we are going to want to be aware of that so that we  
10 can deal with the dust problem as it rears its ugly head.

11 MR. FORAN: Bill, maybe you should mention the  
12 study that the Board's contracted on identifying recycled  
13 content through clinical means.

14 MODERATOR HUSTON: Gee, Brian, why don't you talk  
15 about that?

16 MR. FORAN: That's part of 1305, right?

17 As part of the auditing component of our minimum  
18 recycle content of newsprint law, we have contracted  
19 interstate to have our General Services Department  
20 determine whether they can identify recycled content.

21 There are means to do that. Maybe Bill knows  
22 more about it. There are processes to identify those.

23 MR. NIELSEN: There is some processes, but I  
24 think it would be the biggest nightmare in the world.

25 You want to do it from the source and the end

1 user. If it's the LA Times, how much have you used?

2 If it's the source, you know how much. We've got  
3 the Green Cross, and the people have to stand to the  
4 pulpers, are you doing it?

5 I guess people are people, and people can fudge  
6 anything. If you have both the source and the end user, the  
7 printer of the material -- we have to give letters in our  
8 converting business, did you rewind recycle and ship it to  
9 printer X, Y, Z? Yes.

10 Or we'll get letters from the manufacturer, we  
11 hereby certify that it's recycled.

12 To chemically test every sheet, I wouldn't -- the  
13 industry itself has demanded such good high specifications,  
14 that a lot of the mills, you can take up 100 percent, 40  
15 percent in a virgin sheet and lay them right down, there  
16 could be some difference, but in many cases there's not.

17 The biggest newspaper in the country demands this  
18 brightness, this opacity, and if you don't make it, then  
19 you don't supply them, and we buy a million and a half  
20 tons.

21 Obviously, the newsprint mills want the big end  
22 users under their belts.

23 MODERATOR HUSTON: Okay. Any comments from the  
24 audience?

25 Any comments on anything we have talked about

1 today? Any reflections?

2 Any additional information, something that we  
3 missed? Open to the Board or open to the panel? Anybody?

4 Okay. I want to quickly summarize perhaps what  
5 we have covered today. We have identified, I think, a  
6 variety of barriers to not only the use but the  
7 substitution of secondary fibers for virgin fibers.

8 I am delighted that we were able to identify as  
9 many as we were. I think, also, we came up with a variety  
10 of different ways to overcome those barriers.

11 We were able to identify several quality-related  
12 problems. Stu, I think, throughout the morning was able --  
13 not Stu, Harry -- would two just change places and make it  
14 easier for me -- identified that glass was a real problem,  
15 moisture, staples, ink, sunbleaching, food, the  
16 contaminants continue to be a problem.

17 I was very interested in the ideas that came  
18 forward on what the State can do, what we can do either,  
19 certainly not regulatory is what I heard the panel saying,  
20 but perhaps administratively and assistance-wise and  
21 information-wise helping with bringing groups together to  
22 talk about the problems rather than letting the problems be  
23 over here and solutions be over here and the communication,  
24 not bringing them together.

25 So, I was particularly interested in all of the

1    comments today. Thank you so much for coming. Some came  
2    from near. Some came from far.

3            I'm delighted that you're here. I hope you  
4    continue to work in our process with us. Brian, within the  
5    next couple of months will be coming up with an action  
6    plan, and I know that he will share that with you before we  
7    take it forward to our Board.

8            If you have comments, please add them. If you  
9    have additional ideas, please send them to us or contact  
10   Brian or me. We would like, as we go through the action  
11   plan, as the Board picks specific activities that it will  
12   undertake, we would like to keep you in the loop, all of  
13   you, so that we can maintain the kind of communication, the  
14   problem-solving ability that we have as a State agency  
15   working directly with industry.

16           I am delighted that you were here this morning.  
17   If you have an opportunity, I would encourage you to  
18   participate this afternoon as well if your schedules permit  
19   that.

20           I would like to close this workshop. Be back  
21   here for the corrogated workshop at 1:30.

22           Thank you all.

23           (Thereupon the workshop was adjourned  
24           at 12:10 p.m.)

25           --oOo--


CERTIFICATE OF SHORTHAND REPORTER

I, VICKI L. MEDEIROS, a Certified Shorthand Reporter of the State of California, do hereby certify:

That I am a disinterested person herein; that the foregoing hearing was reported in shorthand by me, Vicki L. Medeiros, a Certified Shorthand Reporter of the State of California, and thereafter transcribed into typewriting.

I further certify that I am not of counsel or attorney for any of the parties to said hearing nor in any way interested in the outcome of said hearing.

IN WITNESS WHEREOF, I have hereunto set my hand this third day of November, 1992.

  
VICKI L. MEDEIROS  
Certified Shorthand Reporter  
License No. 7871



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OLD CORROGATED CONTAINERS WORKSHOP

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

MARKET DEVELOPMENT WORKSHOP

--oOo--

COPY

BOARD ROOM

8800 CAL CENTER DRIVE

SACRAMENTO, CALIFORNIA

--oOo--

WEDNESDAY, SEPTEMBER 30, 1992

1:30 P.M.

--oOo--

Vicki L. Medeiros, C.S.R.  
License No. 7871

A P P E A R A N C E S

WORKSHOP MODERATOR:

BILL HUSTON, Supervisor  
Market Trends and Analysis Section

BRIAN FORAN, Staff  
Market Trends and Analysis Section  
Market Development Branch



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P R O C E E D I N G S

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MODERATOR HUSTON: I would like to welcome everybody back who obviously survived lunch, and we should conclude with our moment of silence for those who didn't.

I would like to welcome the new panel that we have for the second half of today's workshops. This session will cover old corrogated containers and cardboard.

As I mentioned this morning, my name is Bill Huston. I'm in charge of the Market Trends and Analysis Section in the Board's Market Development Branch. Basically, it's my staff that has prepared the Status Report on the materials that are being covered in these workshops, and will be responsible for preparing the action plans that follow each of the workshops and be reviewed by the Market Development Committee, either in November or December, depending upon the material in question.

Today's workshop will primarily focus on comments and suggestions from the public, and particularly from the panelists on what are the barriers to the use and substitution of old corrogated fibers for virgin fibers, and what are some of the alternatives, the opportunities, the projects that might be undertaken to overcome those barriers.

All of this will culminate in, as I mentioned, an

1 action plan to be presented before the Market Development  
2 Committee in December, I believe the date is the tenth, to  
3 layout a variety of alternatives that the Board might  
4 consider to address the old corrugated cardboard market  
5 conditions.

6 Those will eventually be folded into a  
7 comprehensive plan, and the actions of other materials to  
8 set the direction for the Board's Market Development  
9 Program over the next eighteen months to two years.

10 So, I encourage everybody to continue to  
11 participate in our process. We want your input. We want  
12 your comments.

13 I know that Brian would be delighted to have your  
14 early review of both the action plan and any comments you  
15 might have on the Status Report. Stay involved.

16 Let us know where we're going astray, where we're  
17 making mistakes, where our analysis perhaps is missing some  
18 important information.

19 To begin today, I would like to remind everybody  
20 that there is a copy of the Status Report in the back of  
21 the room. There is also an Agenda for this afternoon's  
22 proceedings, and a list of the panelists with their  
23 addresses, and other information that Brian Foran of the  
24 staff has prepared to help guide today's discussions.

25 I'll quickly introduce the panelists, and then

1 during the discussion of the very first question today ask  
2 each of them to perhaps augment a little bit the  
3 introduction that I have, and if they have some particular  
4 issue or some information that they would like to share  
5 before we get into the panel to do that.

6 Our first panelist is Chris Geyer. Welcome,  
7 Chris. Chris has been the Recycling Coordinator for  
8 Project Go, Incorporated, since February of 1991, which is  
9 a nonprofit community service agency in Rocklin.

10 Since 1988, Project Go has been recycling office  
11 paper in Placer and Sacramento Counties and provides  
12 collection services to over 350 clients.

13 I understand that Project Go was recently awarded  
14 a grant by the Western Regional Sanitation Landfill  
15 Authority to help educate the residents on the many  
16 requirements of AB-939. I'm looking forward to Chris's  
17 participation.

18 Next is Dick Johnston, who had an opportunity to  
19 come in a little bit early today, so he's been, perhaps,  
20 either sensitized or desensitized, depending upon his  
21 perspective of what may happen this afternoon.

22 Dick has been the Plant Manager at Jefferson  
23 Smurfit Corporation/Container Corporation of America's 100  
24 percent Recycled Clay Coated Boxboard Mill since July of  
25 1984. Prior to that assignment, he had a number of other

1 responsibilities with that same corporation.

2 He has served the last two terms as the Chairman  
3 of the Southwestern Division of the Paper Industry  
4 Management Association, and we're looking forward to your  
5 comments as well, Dick.

6 One thing I failed to mention, and if I can, I  
7 wanted to let everyone know exactly what some of the  
8 reasons that we have invited these distinguished people to  
9 be here today, Chris Geyer is here basically to represent  
10 the private, nonprofit organization's perspective in the  
11 old corrugated industry.

12 Dick Johnston is here to represent the domestic  
13 mill perspective.

14 Our third panelist, for any of you who were here  
15 this morning. Bernie was nearly a panelist with us this  
16 morning, although he sat out front.

17 He's representing the foreign market  
18 perspective. He has extensive background in all aspects of  
19 secondary materials recovery and utilization.

20 He has been involved in brokering of secondary  
21 materials, industrial development using secondary fibers,  
22 in the design of collection programs, waste fiber supply  
23 analysis for businesses and planning and implementation of  
24 high grade wastepaper collection operations.

25 We're looking forward to Bernie's continuing

1 involvement in the workshop today.

2 The fourth member is Steve Young. He looks far  
3 different than he does with a helmet on, and I appreciate  
4 that he has done that. Steve is here representing the  
5 wastepaper dealer, collection program perspective.

6 He is President of the Allan Company, which was  
7 established in 1963, and is currently one of the largest,  
8 independently owned newspaper firms in the nation, handling  
9 over half a million tons of wastepaper and other  
10 recyclables each year.

11 He is currently the Treasurer and Director of the  
12 California Wastepapers Dealers Association.

13 Welcome to you all. I would like at this point  
14 to introduce and call upon Brian Foran of our staff to  
15 present an overview of the Market Status Report that he's  
16 prepared, and also to acknowledge the fact that Brian is  
17 our expert on wastepaper markets.

18 It is his report that we are discussing in some  
19 detail today and will also be responsible for putting  
20 together the action plan as the next step of this process.

21 With that, Brian, it's all yours.

22 MR. FORAN: Thanks, Bill.

23 What I'm going to do is, for corrugated this  
24 afternoon, is similar to what I did this morning for old  
25 news. I'm going to try to paint a broad picture of the

1 supply-demand status for old corrugated here in the state,  
2 and then briefly touch upon some of the barriers to market  
3 development, general market development barriers to  
4 wastepaper which have some special meaning to corrugated.

5 I'm going to follow the handout, which I have in  
6 the back of the room, the Background Sheet for Old  
7 Corrugated to discuss both supply and demand.

8 On the chart that you see overhead, there are  
9 actually two sets of data. The column on the left reflects  
10 OCC generation and recovery data that has been compiled  
11 from City and County Source Reduction Recycling Elements.

12 These represent presently about 85 percent of the  
13 population here in the state. The statistics that you see  
14 on the right are compiled by Jaako-Poyry Consulting as part  
15 of a market assessment study which has been contracted by  
16 the Board to R.W. Beck and Associates, and Jaako-Poyry, and  
17 I believe another consultant as well.

18 As you can see from the two statistics there is  
19 great disparity in the numbers, and I want to explain that  
20 a little bit.

21 First of all, for tons generated, which I refer  
22 to as potential supply of old corrugated in the state, I  
23 refer to it as potential supply, but, of course, in fact,  
24 there is realistic limitations to how much of any type of  
25 wastepaper can be recovered. It's potential supply but

1 that is not to suggest that 100 percent of that would ever  
2 be available for recycling.

3 The American Paper Institute estimates the  
4 economically feasible recovery rate for OCC at around 60  
5 percent. I think that might be conservative, but  
6 nonetheless, the figures that we come up with from the  
7 Source Reduction and Recycling Elements data show that we  
8 have a long way to go to get near that.

9 Let me explain some of the reasons for the  
10 disparity in the figures here. The tons generated in the  
11 Source Reduction Recycling Elements is simply a total of  
12 that which is disposed of, which is actually a result of  
13 waste composition studies performed by municipalities in  
14 tons recovered, which is also in part estimates because you  
15 cannot account for every ton of OCC recovered in the state,  
16 and often times this information is difficult to get.

17 Private wastepaper dealers are sometimes a little  
18 bit hesitant to part with that information.

19 The real disparity here is in the tons of  
20 corrugated generated. I really do not have an answer as to  
21 why there is such disparity there. That is something that  
22 we have to look into.

23 On account of the high generation figure, the  
24 recovery rate for -- that comes from the data from the  
25 Source Reduction Recycling Elements is very low from what



1 had been previously estimated and what industry presently  
2 estimates is the recovery rate for corrugated in the  
3 state.

4 I don't really think that this is something that  
5 we need to focus too much attention on, other than how much  
6 market development effort is really required for  
7 corrugated. If we're at the 62 percent recovery rate, on  
8 the right column, then perhaps -- well, let me backtrack a  
9 bit.

10 It's significant in the sense that we need to  
11 know where to focus our market development efforts. If we  
12 are at 62 percent recovery rate, and it's estimated that  
13 we're approaching the maximum feasible recovery rate, maybe  
14 corrugated doesn't need that much attention, yet market  
15 prices, which I'll get into a little bit later here, would  
16 argue otherwise that corrugated markets are in need of  
17 development to at least make collection more economical for  
18 those municipalities and private businesses involved in  
19 that activity.

20 The big disparity, the other disparity in figures  
21 here is in tons recovered. You can see that the statistic  
22 from the Western States Study is nearly double that for  
23 tons recovered than is reported in the Source Reduction and  
24 Recycling Elements.

25 Part of that is explained by the fact that

1 preconsumer double-lined craft is included in the OCC  
2 recovery statistics that Jaako-Poyry compiled. I'm fairly  
3 confident that those were not included in the Source  
4 Reduction and Recycling Elements statistics.

5           Whatever the case, it's hard to make a call as to  
6 where we are on recovery. I would be inclined to say that  
7 the true situation is a lot closer to what was found in the  
8 Western States Study, but there still needs to be some  
9 further research into that to determine just where we are  
10 at as a state of recovery for OCC.

11           The dispute as to where the demand is coming from  
12 for old corrugated, from the table here on the screen  
13 overhead, in-state mills here in California provide the  
14 large bulk of demand for old corrugated. It comes from a  
15 variety of sources, not just those plants that manufacture  
16 corrugated cardboard, that is the liner in the corrugated  
17 medium that goes into cardboard boxes, but a number of  
18 other types of board mills, such as recycled boxboard,  
19 construction materials and the like.

20           As I was saying, there is a fair number of  
21 different types of paper and paper board mills that do  
22 consume OCC. The table on the screen here shows just what  
23 a variety of those types of mills there are.

24           There are quite a few of them in the state. That  
25 is what accounts for our high in-state consumption of

1     corroigated.

2             In addition to existing mills, there is  
3     consumption of OCC, that is the capacity to consume that,  
4     at recycled paper mills is growing at a pretty fast rate. I  
5     have put in here three projects, two of which have already  
6     come on line which have added considerable additional  
7     capacity to consume old corroigated here in the western  
8     states.

9             The two that have come on line are the Inland  
10    Container plant, in Ontario, and the Longview Fiber plant  
11    in Longview, Washington, which in fact does draw some  
12    corroigated from our state.

13            The one that is yet to come on line is the  
14    Weyerhauser plant in Springfield, Oregon, but when it does  
15    come on line, more likely in 1993 than this year, it will  
16    draw or provide demand for old corroigated generated in our  
17    state.

18            As I was saying before, although there is pretty  
19    good demand for corroigated, the prices that are paid to  
20    collectors for that material don't really reflect a very  
21    healthy demand right now.

22            Corroigated prices have dropped quite a bit in the  
23    last five years. Presently they are holding steady around  
24    the \$40 to \$45 range.

25            That's a price that a mill will pay to have that

1 paper delivered. That is not including processing or  
2 transportation costs. \$40 to \$45 a ton does not come close  
3 to supporting the cost of collection and processing for  
4 corrugated. This is what underscores the need for market  
5 development for this material.

6 I will touch upon a few of the barriers to  
7 developing markets for OCC. This will be the focus of one  
8 of the questions which our panelists will be touching on.

9 For those of you who were here for the morning  
10 session, bear with me. It's going to be a repeat of what we  
11 heard for old news, because most of the barriers to  
12 wastepaper market development are pretty generic.

13 I'm going to make it short here. One of the  
14 barriers is the high cost of the equipment that is required  
15 to install recycling capacity. Those mills which have  
16 installed new recycling capacity have done so recognizing  
17 either -- to them there is an economic value in doing so.

18 The cost of the OCC is below the cost of  
19 procuring virgin fiber to produce corrugated containers or  
20 whatever their product is, that the corrugated provides an  
21 alternative fiber supply for. Nonetheless, that equipment  
22 is very expensive and does create barriers to additional  
23 capacity to consume OCC.

24 One of the things that the Board is considering  
25 in the Market Development strategy is provide financial

1 incentives to consumers of wastepaper, including  
2 corrugated, to make this type -- to install this type of  
3 equipment a little bit more economically realistic.

4 High wastepaper transportation costs have been  
5 identified as a major barrier as well. The thing that we  
6 have identified as the best way to overcome that is to  
7 encourage mills to site closer to the source of the  
8 corrugated.

9 Here in California, we have quite a few mills as  
10 it is. We are not proposing to build new mills because  
11 there is limited demand for the end product, whether it's  
12 corrugated liner or medium or what have you that uses the  
13 OCC.

14 For newsprint was a realistic thing to try to  
15 site more mills in California. One of the other things  
16 that we can do to overcome the high transportation cost is  
17 to try to work with the Institute of Scrap Recycling  
18 Industries to deregulate rail transport of wastepaper.

19 The fact that wastepaper transport by rail is  
20 regulated creates considerable problems for those who want  
21 to ship material to mills. We do have a good number here.

22 If some of those barriers could be removed, it  
23 will mean more supply out here. I'm not sure how that  
24 works out in demand, but in some cases having the material  
25 there would perhaps increase -- I'm not sure how that would

1 work.

2 Having more supply doesn't necessarily create  
3 demand. That's not what I'm saying. But it is a barrier to  
4 increasing consumption of more corrugated.

5 Another barrier that we identified to increase  
6 corrugated market development is the quality of the  
7 wastepaper. That certainly was an issue in our newspaper  
8 workshop this morning.

9 We'll find out from our panelists just how  
10 significant an issue that is with corrugated. I understand  
11 that some of the wax coatings, some of the adhesives used  
12 with corrugated are a problem at the mills, and Dick will  
13 address some of those issues.

14 What we suggest here at the Board to try overcome  
15 those barriers is to facilitate communication between the  
16 converters who are actually putting together the boxes with  
17 whatever materials they are using, whether it be the hot  
18 melt glue or whatever, and facilitating communication  
19 between them and the mills that are consuming the products,  
20 so that those generating the contaminants know that they  
21 are contaminants and maybe can find alternatives to those  
22 so that it's a more recyclable product.

23 Excessively stringent aesthetic standards have  
24 been a barrier to using at least 100 percent recycled  
25 corrugated because you don't get the white outer liner that

1 you see on a corrugated box is typically virgin sheet, and  
2 I know that some of the major electronics firms, such as  
3 Hewlett Packard and Apple Computers have recently switched  
4 to all unbleached corrugated box for their products, which  
5 allows more recycled liner to be used in that corrugated  
6 box.

7 To the extent that we can encourage product  
8 manufacturers to relax their aesthetic standards somewhat,  
9 we can encourage reuse of recycled liners and boxes.

10 That's about it for the barriers that effect OCC  
11 demand. Let's get on with the panelists.

12 MODERATOR HUSTON: Thank you, Brian.

13 Any questions of the panelists regarding Brian's  
14 report or presentation?

15 MR. GEYER: I would just like to say one thing,  
16 having had the opportunity to serve on a number of cities  
17 SRRE Task Force, it doesn't surprise me one bit that they  
18 don't know what is going on.

19 You'd have one figure that is totally out of kilt  
20 of what is the reality. I'm sure that you find that  
21 throughout the reports. They did not ever have a handle on  
22 what was actually going on.

23 It was very difficult for them a lot of times to  
24 get that information from private industry, supermarkets,  
25 even buy back centers are less than forthright in providing

1 that information. Like I said, it doesn't surprise me one  
2 bit that there's that wide gap between what could be  
3 perceived as reality and then city and county government's  
4 reports.

5 MR. FORAN: I just mentioned that the DOT issue  
6 may have contributed to that. It's more the inability of  
7 the municipalities to quantify the commercial generation  
8 that comes up short on the recovery end.

9 MR. YOUNG: We have two mills in California, and  
10 maybe three mills, that can make white K-liner from 100  
11 percent recycled product, and they do it on a pretty  
12 regular basis.

13 They may be surcharging too much to prevent Apple  
14 from using it right now. Some prices are higher than the  
15 virgin.

16 MR. FORAN: Thanks for setting me straight on  
17 that.

18 MODERATOR HUSTON: Okay, anything else?

19 Anyone from the public who wants to comment?

20 Okay. I would move into the two-part first  
21 question, one, if the panelists would like to make an  
22 introductory comment of some sort, please do so; but the  
23 question that we want to get right into is question number  
24 one.

25 What are are the greatest barriers to expanding



1 the use of corrugated containers by existing recycled  
2 product manufacturers, and how can these barriers best be  
3 overcome?

4 I would like to start with you, Chris, and we  
5 will move down the line.

6 MR. GEYER: I feel a little bit like one of the  
7 characters from the Wizard of Oz when the Wizard was saying  
8 to the scarecrow, here's your diploma, now you're smart.

9 I guess that now that I have something that says  
10 I'm on the panel, I'm now an expert, and want to tell you  
11 that I really appreciate that.

12 I would like to say that it's really good that  
13 the Board is giving a nonprofit an opportunity to state  
14 their case in this overall solid waste issue that we're  
15 currently facing.

16 Project Go has been collecting cardboard from  
17 clients for about two years. It's very difficult to  
18 continue to do that given the economic times. When you're  
19 looking at cardboard prices of \$40 to \$45 a ton, in  
20 reality, as a collector of cardboard, we're probably being  
21 paid anywhere from \$28 to \$35 a ton.

22 We estimate that it probably costs us to pick it  
23 up and handle it somewhere in the neighborhood of \$35 to  
24 \$40 a ton. That's picking it up, baling it and having it  
25 shipped.

1           It's real difficult to stay focused on the  
2 collection of cardboard. We feel very keenly that we must  
3 continue to give our clients in Placer and Sacramento  
4 County, where we're working, an opportunity to recycle this  
5 particular product.

6           An approach that we're trying to initiate,  
7 without a lot of success right now, is the opportunity to  
8 present to businesses, especially, the picture that they  
9 are going to save money in the long run by recycling  
10 cardboard versus having it continually go into the waste  
11 stream and the disposal cost.

12           As more and more city governments are getting  
13 serious about making sure that 939 is, the intent is fully  
14 developed in their communities, we're finding out that we  
15 are getting support along that line, and they are providing  
16 some support to us financially as well as in a marketing  
17 standpoint to keep the cardboard from going into the  
18 landfill.

19           Interestingly enough, the MRF operators, the two  
20 bidders in Placer County who are proposing to build a MRF,  
21 cardboard is one of the major elements that they are  
22 looking to get along with wastepaper.

23           I think it's a commodity that has a future. From  
24 a collecting standpoint, we're excited about being a part  
25 of that, especially if we can get some financial

1 assistance. That's it.

2 MODERATOR HUSTON: Okay. Dick Johnston.

3 MR. JOHNSTON: I would like to offer upfront that  
4 we do have a hundred percent recycled paper board mill in  
5 Santa Clara.

6 Paperboard is different than cardboard because  
7 we're making essentially a substraight that will become a  
8 commercial box on a store shelf, such as a cereal or soap  
9 or tissue box.

10 I would like to make an offer upfront for anyone  
11 who hasn't seen that, we do take people through on tours.  
12 Actually seeing it live really helps kind of bring the  
13 whole picture together. It's one thing to talk about  
14 newspapers in a pile or bail, or corrugated, but when you  
15 see it go through the process and see something come out  
16 the other end, it makes the picture worth a thousand  
17 words.

18 We would be happy to entertain anybody who would  
19 like to come down see us. We do give tours.

20 The barriers, question one, the answer to  
21 question one is similar to the answers to several of  
22 these. We are up against in terms of the fact that we use  
23 old corrugated.

24 The limiting factors in our operation, which is  
25 true for a lot of the people that we compete with, is that

1 we have aesthetics. I don't know how many of you take a  
2 close look at a cereal box. If the outside has blemishes  
3 in the printing, you, as a human being, will tend to draw  
4 the conclusion that if the outside doesn't look right, you  
5 won't pick up that box and buy it because it does give you  
6 the impression that maybe the inside contents are also  
7 somehow less than perfect.

8 If you're in a medium such as ours where the  
9 greatest advertising vehicle for our end use customer is  
10 the printed carton, and if that carton doesn't look good,  
11 you, the consumer, and myself included, will not buy the  
12 carton.

13 The aesthetics issue is a really tough one to get  
14 over. This is a double-edged sword. We now have customers  
15 that want us to make the inside of the box or what we call  
16 the back liner look dirtier so that the consumer is sure  
17 it's recycled.

18 Don't mess up the face where they print, but when  
19 they open up the box they want to be sure it looks  
20 recycled. An interesting challenge for us to undertake.  
21 So, we have the aesthetics issue.

22 OCC, our single problem, and it's true of anyone  
23 who uses it, is the level of contamination. Brian and I had  
24 this discussion before. It's what will come up under  
25 number four.

1 Wax and hot melt glues are very, very difficult  
2 to handle. OCC, those are two very common contaminants.  
3 There are lots of others, but those jump out.

4 In dealing with the ability to deal with  
5 contaminants, the only way that is acceptable to date is,  
6 one, to literally hand sort, which is extremely expensive  
7 when you look at labor costs, or put in many millions of  
8 dollars in capital and equipment to clean to go after those  
9 contaminants.

10 That's the barrier that we face.

11 MODERATOR HUSTON: Okay. Dick, does your company  
12 now use 100 percent recycled feedstock, or do you use some  
13 virgin as well.

14 MR. JOHNSTON: Our mill was first built in 1957.  
15 It has always been 100 percent recycled. We never had any  
16 pulping capacity. We never used any wood products.

17 We do buy what is listed in your literature as  
18 pulb subs, for our top liner, the surface that we will put  
19 the coating on so that the printer has a nice white  
20 substraight to print on.

21 Predominantly, our sheet is made up of 50 percent  
22 post consumer. We deal with OCC as one of the fibers that  
23 we deal with on a regular basis.

24 MODERATOR HUSTON: Does your source of OCC  
25 basically come from curbside, or is it more controlled than

1 that?

2 MR. JOHNSTON: It's more controlled.

3 Our current supply source, we have two  
4 suppliers. For us, it's very unusual.

5 Most recycle mills have multiple suppliers of  
6 wastepaper, because there aren't many generating sites that  
7 can generate enough material to supply even a small paper  
8 mill.

9 In the case of OCC, we have one store that knows  
10 the quality level that we need, which really means that  
11 they try to keep the wax cartons out of our OCC. We buy  
12 pretty much hand-picked store OCC bales.

13 We also have a small local recycler that has a  
14 number of commercial accounts in the area that has his own  
15 little forklift and pickup truck, and goes around and picks  
16 up those bales, and we know the quality of his material.

17 Based on the quality level that those two  
18 suppliers give us, that allows us to use OCC as a  
19 feedstock.

20 MODERATOR HUSTON: Thank you.

21 Bernie Meyerson.

22 MR. MEYERSON: When looking at OCC from an export  
23 perspective, I would say right now that the biggest barrier  
24 to shipment is the general state of the world economy.

25 OCC is a especially sensitive to macro economic

1 conditions, particularly consumer, consumer spending and  
2 consumer consumption both abroad and here in the United  
3 States.

4 One of the reasons that we ship a lot of OCC to  
5 Asian markets is so that they can send back their CDs and  
6 TVs, and all the other things they sell to us in boxes.

7 When that market is diminished, as it is now, the  
8 demand is diminished significantly. One other major  
9 barrier to any export of wastepaper to the Pacific Rim, as  
10 was mentioned this morning, is the cost of freight. Even  
11 though OCC is more valuable than ONP, it nevertheless is  
12 still the situation where in most instances you're paying  
13 more for freight than you are for the paper.

14 But I want to add one more factor, that it's not  
15 just the cost of the freight, but the availability of  
16 shipping containers is a very uneven situation, because  
17 whenever a shipping company has more valuable material to  
18 ship abroad, they are quick to deny the containers to the  
19 wastepaper industry.

20 That's being partially mitigated now by the  
21 growing interest in bulk shipping. OCC is especially  
22 amenable to that because it packs into a good bale.

23 Finally, as a barrier, I will talk about the  
24 baling situation itself. One barrier to the export of OCC  
25 on the part of a lot of medium size wastepaper dealers or

1 generators is that they do not have baling equipment that  
2 makes a sufficiently compact and heavy bale to meet the  
3 weight standards required for export.

4           Essentially, by their equipment have left  
5 themselves out of the export market.

6           I will start with those.

7           MODERATOR HUSTON: The lack of the baling  
8 equipment, is that because it's extremely costly or because  
9 the equipment doesn't exist?

10           MR. MEYERSON: The equipment exists, but the high  
11 compression balers are fairly costly in most instances.

12           It's been my experience that a lot of people that  
13 get into the business, and may even generate -- I'm not  
14 talking about wastepaper dealers particularly, but maybe a  
15 waste hauling company that wants to get more seriously into  
16 the business of OCC generation, do not think about it in  
17 those terms.

18           They sort of respond to a baler salesman who may  
19 or may not bring up that issue. They just sort of back  
20 into the wrong kind of baler. I don't think it's so much a  
21 conscious decision on their part as much as a lack of  
22 information and lack of understanding that you have to be  
23 able to get certain weights into a 40-yard container in  
24 order to make it viable.

25           MR. FORAN: Bernie, I have a question.



1           How does shipping break bulk help overcome the  
2 problem of the high freight cost? Is it that more can  
3 actually be shipped that way than if you put it in a  
4 container?

5           MR. MEYERSON: The idea of break bulk is coming  
6 back simply because, well, for a couple of reasons -- one  
7 is that the industry doesn't want to be held to ransom by  
8 the container companies that arbitrarily cut container  
9 availability off when it suits them, or ups the container  
10 rate.

11           There was a time earlier this year when the  
12 container rates were going up weekly. When you make  
13 overseas arrangements to market something, you accept the  
14 price overseas, and by the time you finish the shipment,  
15 you might be paying substantially more for shipping, and  
16 you end up having to eat it.

17           MR. FORAN: You avoid the container cost by  
18 shipping break bulk?

19           MR. MEYERSON: Yes.

20           There have been some technological advances in  
21 the ability to load large number of bales simultaneously in  
22 a way that respects their integrity and minimizes the  
23 handling.

24           You have to be able do it so that it can be  
25 loaded and off loaded in a reasonable period of time. The

1 demurrage on a ship is something like \$10,000 a day. So, if  
2 you take too long to off load it on the other end, and have  
3 to pay 10,000 a day, you eat up any value very quickly.

4 There are a number of problems still associated  
5 with it, the least of which are difficulties with  
6 longshoreman costs and handling costs at American ports,  
7 but it's something that is growing.

8 Maybe Steve can talk about it in a moment or two.

9 MODERATOR HUSTON: Okay. Thank you.

10 Finally, Steve Young.

11 MR. YOUNG: Just to add to Bernie's comments,  
12 current westbound sailing rate is about 70 percent, and the  
13 shipping lines have just announced a \$3 bunker fuel  
14 adjustment charge.

15 This is rather a strange incident. The oil prices  
16 are actually dropping slightly. They have gone up.

17 One problem we have in the ocean shipping  
18 business is that we have every line talking to every other  
19 line, and they have exemption from anti-trust. Even the non  
20 conference lines have set up an independent body to  
21 negotiate with the conference now, and, of course, they are  
22 agreeing to fix the rates.

23 Normally when we saw 70 percent sailing  
24 westbound, we would see a decline in rates and expect the  
25 money on the table as high as you wanted to, and the rates

1 would come down. They have not dropped at all. Maybe  
2 slightly in two or three areas.

3 The one thing that is forcing rates down is when  
4 the steamship companies start to lose a major share of  
5 their business to break bulk. Our constraints to that are  
6 the fact that our loading costs are about three times what  
7 they are on the East Coast.

8 Maybe the California Integrated Waste Management  
9 Board would want to make a study of why our costs are  
10 different and find a way to adjust those costs to a proper  
11 level so that we can be a competitive break bulk shippers.

12 Let's talk about question at hand, what are the  
13 greatest barriers to expanding the use of OCC by existing  
14 recycling paper mills. I would say that the markets are a  
15 big constraint.

16 The wallboard mills are running mostly on 10-4  
17 schedules. The State should look at some form of subsidy to  
18 keep those mills running 100 percent. If that means freight  
19 subsidy to make additional product, such as liner board or  
20 craft medium, and most of them can do that, not with the  
21 same high production capacity that they make wallboard  
22 paper, but very close to it.

23 It would make one of our utilizers full  
24 capacity. They are used to using secondary fiber. It's  
25 all they use. Making wallboard for export and some sort of

1 freight subsidy to make it competitive with the Europeans  
2 who at one point in time had free fiber supply.

3 Power costs are another problem for the paper  
4 mills. If you do not have co-generation at your paper mill,  
5 your power cost can be three or four times the nearest  
6 competitors.

7 Some of the paper mills currently in existence do  
8 not have co-generation. They are uncompetitive in certain  
9 areas, which also reduces their running time.

10 Water supply, the biggest thing to water supply  
11 of course is recycled water systems. This is a monetary  
12 constraint because they're very expensive. It means  
13 settling ponds, additional land, cleaning equipment for the  
14 water, and maybe the State could look at subsidizing some  
15 of these for the existing mills that do not have them.

16 Sewage treatment, certain mills in certain areas  
17 are charged an enormous sewage charge to dispose of their  
18 waste water. Perhaps some adjustment or allowance could be  
19 made in this to allow these mills to operate without this  
20 tremendous surcharge.

21 Raw material supply, there has to be a good raw  
22 material supply that is fairly priced, available and of a  
23 quality that the paper mill can use.

24 I think we have all those things in California  
25 right now. Our recovery rate on OCC is approaching

1 probably pretty close to the maximum. I do not agree with  
2 the 62 percent figure. I think it's more in the 72 percent  
3 range, and might be in the 82 percent range.

4 Money is another problem. Some of the mills in  
5 California are in serious financial difficulty. They are  
6 secrets. They are public companies. US Gypsum and Gaylord  
7 both are struggling at the present time.

8 We have a mill in California that is shutdown.  
9 It would take \$150 million to reconstruct it and get it  
10 running. It's a prime target for a recycle mill.

11 A lot of our paper mills have machine  
12 constraints. They can't switch grades very well. They  
13 can't make certain grades. Perhaps there could be low  
14 interest loans to make them more competitive.

15 Our general economic picture doesn't lend well  
16 for our wallboard mills and it will not lend well in the  
17 future for our medium or liner mills. We have to improve  
18 the general economic picture.

19 The market picture is improving. The public is  
20 accepting recycled paper board and recycled boxboard and  
21 demanding it. The larger consumers, the breweries, the  
22 food producers are all demanding that it be recycled  
23 board.

24 Twenty years ago in this country when the  
25 economic condition declined, the demand for virgin board

1 would shoot through the roof and the recycle people would  
2 all take down time. It's exactly the opposite of what is  
3 occurring today.

4 The people taking the down time are the virgin  
5 producers, which is forcing them to put in recycling  
6 systems. Despite us being critical of the government, they  
7 are doing a job of forcing these people into the recycle  
8 business.

9 MODERATOR HUSTON: Okay. Thank you.

10 Any comments or questions from the other  
11 panelists regarding what you have heard?

12 MR. JOHNSTON: I would just like to add one  
13 thing.

14 It might be intuitively obvious for a lot of us,  
15 but if you look at wastepaper, you have looked at mixed  
16 paper, news and now we're talking about corrugated,  
17 corrugated is unique in the fact that because the fluted  
18 medium in every corrugated box is there for structural  
19 strength, it also makes it a very uncompressable material.

20 When we look at moving that material, it's very  
21 difficult to get weights. I have a couple of guys to my  
22 left here that could probably give you exact numbers, but  
23 our experience at our mill is that an 800-pound bale of  
24 corrugated, the exact same bale in almost any other paper  
25 fiber is about 1200 pounds.

1           As far as weight and shipping, it becomes a big  
2     issue with the cost of moving the material. You can fill up  
3     a truck and not meet weight, and fill up a container but  
4     not make weight just because corrugated is very hard to  
5     compress to meet those weights.

6           That is something to factor into this.

7           MR. YOUNG: When you begin to collect corrugated  
8     in loose and roll off boxes, you soon learn that your roll  
9     off collection costs run about \$50 a ton loose, and that  
10    means that you average about two tons a box, and it  
11    generally costs \$100 per container to pick a box up.

12           Baling or running through a wastepaper plant is  
13    between \$30 and \$40 a ton, depending upon landing cost,  
14    building cost, and the size of the facility and how well  
15    the material is produced through the facility.

16           The cost of producing a ton of corrugated a day  
17    is probably in the neighborhood of \$70 or \$80 a ton, if you  
18    go and pick it up from the commercial account.

19           In the market where we're receiving \$55 or \$60 a  
20    ton for the material, that's pretty uneconomic to do it  
21    over a long period of time.

22           MR. MEYERSON: I would like to pick up on that  
23    and say that one of the underlying implications of what  
24    Dick and Steve have just said is that for this material  
25    almost more than any other paper grade, the continued

1 health of what we call the informal sector is absolutely  
2 vital to bringing in the incremental tonnage of OCC,  
3 especially in loose form, precisely because it's uneconomic  
4 in any institutionalized sense, and probably even for the  
5 informal sector collector if he really charged what all his  
6 costs and his labor, the way other people have, he would  
7 probably find that it's not very cost effective either.

8 He does it, nevertheless. One of the things that  
9 I'm saying, there is a lot of movement out in the public  
10 and public agencies to really stamp down on scavenging or  
11 that kind of thing.

12 For formal programs, it's important to keep in  
13 mind, especially for this material, that the informal  
14 sector provides an absolutely vital service.

15 MR. YOUNG: At an enormous savings to the  
16 taxpayer.

17 MODERATOR HUSTON: Thank you.

18 Any comments?

19 MR. FORAN: I have a question for Steve.

20 You mentioned that a mill had recently closed  
21 down and it would take \$150 million to get it going. Which  
22 mill is that that you're referring to?

23 MR. YOUNG: That's the Fiberboard Mill,  
24 associated with Gaylord Container. They actually paid \$240  
25 million for the mill and ran it about nine months, and shut



1 it down because it was losing about \$35 million a month.

2 MR. FORAN: Which city is that mill located?

3 MR. YOUNG: Antioch, California.

4 MR. MEYERSON: They technically did some work to  
5 integrate those two mills back when they acquired them, but  
6 they are in a sense separate entities.

7 MR. YOUNG: The original idea was to cross-pulp  
8 virgin material into the recycled Gaylord mill in Antioch  
9 and eliminate the chip need and save \$30 a ton. The  
10 machine size on the Fiberboard side is the wrong size and  
11 ended up with a bad trim, not designed for the market now.  
12 You have to make a machine change and get away from the  
13 wood chips because they are expensive.

14 You would want to convert to recycle. There are  
15 EPA and other conditions that have to be met.

16 MR. FORAN: That mill had been -- they were using  
17 OCC and wastepaper?

18 MR. YOUNG: As Bernie said, they were a large  
19 user of wood waste for their hop-fuel boiler.

20 MR. MEYERSON: The OCC is used on the other  
21 side.

22 MR. YOUNG: They used OCC in a small amount for  
23 their medium machine as well.

24 MODERATOR HUSTON: Okay. Any comments from the  
25 audience?

1 Any questions?

2 MR. MEYERSON: Just one quick side-bar comment, I  
3 think the chances of getting a new mill sited at that  
4 location are zero to minus four.

5 MODERATOR HUSTON: Okay. Question number two,  
6 what are the greatest barriers to substituting old  
7 corrugated for virgin feedstock by existing virgin product  
8 manufacturers, and how can these barriers best be  
9 overcome?

10 Steve, let's start with you.

11 MR. YOUNG: Part of the problem if you're a  
12 virgin user making liner board or medium, you are generally  
13 out of the state.

14 We don't think we have one virgin producer  
15 located within the state which means freight-wise you're  
16 \$35 to \$40 a ton away, either from the San Francisco or Los  
17 Angeles area.

18 You immediately have a corrugated cost delivered  
19 to your mill somewhere between \$80 and \$95, depending upon  
20 what the freight situation is. That is a constraint but not  
21 an absolute deterrent.

22 The next thing that's a deterrent is the fact that  
23 you've got to have a cleaning system in order to utilize  
24 that old corrugated. A cleaning system today for 500 tons  
25 is roughly \$25, \$30 million, \$40 million. They are

1 reluctant to make those investments, so they go unmade.

2 Today, we're having a slight change in that  
3 scenario because the demand for recycled board is forcing  
4 these mills to make that change. When you have a mill that  
5 is valued at \$300 million or \$400 million and you talk  
6 about another \$30 or \$40 million to keep it active, sales  
7 wise, it's not much of an investment.

8 Machine constraints, a lot of machines are not  
9 capable of running old corrugated, or not capable of  
10 handling what comes across the machine even after it's  
11 cleaned.

12 Most virgin producers have a huge investment in  
13 woodlands. What comes from the woodlands is lumber and the  
14 byproduct called wood chips. The paper is primarily made  
15 from this byproduct of wood chips.

16 So, they have a problem. What are they going to  
17 do with the wood chips if they turn around and use OCC to  
18 produce the liner board or medium? They have generally a  
19 commitment to purchase that wood chip material.

20 Those are the main constraints that I see.

21 MODERATOR HUSTON: Do you have some suggestions  
22 as to how to overcome those?.

23 MR. YOUNG: A simple suggestion, demand at your  
24 Board that you buy your goods and be recycled and you force  
25 them right into the scene.

1           MODERATOR HUSTON: Are you suggesting minimum  
2 content requirements or requirements, for example, that the  
3 State buy product that has recycled content in it?

4           MR. YOUNG: Surprisingly, we're doing it today  
5 without any minimum recycled content legislation.

6           The big consumers of boxes are demanding recycled  
7 containers, and those include the food and beverage  
8 companies.

9           Everybody who uses ten to twenty truckloads a day  
10 of old boxes is demanding that they be at least 15, 20, 75  
11 percent recycled. They like it even if it says 100 percent  
12 recycled. It's a great benefit.

13          MODERATOR HUSTON: Thank you.

14          Bernie.

15          MR. MEYERSON: I think at this point, I think  
16 generally the demand for U.S. OCC overseas, when there is a  
17 demand for OCC, is very high because we have probably the  
18 finest OCC in the world, in terms of fiber content.

19          But, I would like to point out here, in terms of  
20 something that might still happen here in California, is  
21 that the potential Daishowa 100 percent recycle liner board  
22 and medium mill in Stockton is not a dead issue by any  
23 means.

24          It may be somewhat delayed, but I think it's  
25 still being actively considered by Daishowa. That would

1 have, of course, a substantial impact on demand especially  
2 here in Northern California.

3 MODERATOR HUSTON: Thank you.

4 Dick.

5 MR. JOHNSTON: You have heard some pretty good  
6 statistics and reasons why the virgin issue is probably not  
7 as prevalent in California as it might be elsewhere.

8 We do have a window of opportunity, though, by  
9 the year 1995, the same people that have helped on some of  
10 the surveys that the Board has had done have also done a  
11 survey on the OCC market, believe that by 1995 the South,  
12 the West, Mexico and Canada will all be net importers of  
13 OCC is great.

14 There physically is not enough being generated in  
15 this area to support our own means, and, of course, export  
16 is one of those needs. We have to meet the export demand.

17 In the back of the room, the article that was  
18 laid out was very true that Franklin Associates did that  
19 particular survey said that really our opportunities are in  
20 the residents, small business and office is where OCC can  
21 come from.

22 How do you do it economically? You have heard  
23 some good reasons why it's hard to get that material  
24 collected and picked up without breaking the bank, so to  
25 speak and putting someone out of business.

1 I think our barrier issue is, I think we should  
2 try to to hit those markets because, as most people up here  
3 are aware, there is not a major super market that I know of  
4 in the State of California that doesn't already have their  
5 contract with a major wastepaper broker. Every bale, every  
6 piece of corrogated that comes out of those super markets  
7 is already being sent someplace, whether exported to a mill  
8 in California or possibly in the case of Weyerhaeuser and  
9 some others, to mills north or south of us or into Mexico.

10 We have the opportunity now to try to develop  
11 this, and it's a way to generate, plus it cuts down on  
12 landfill.

13 I don't see the virgin, there is no virgin mill  
14 in California because when that mill at Antioch shut down,  
15 they were the last one that was really a virgin mill. They  
16 did have a small recycle system for OCC.

17 How can we help people like my partner on the  
18 right, Chris here, come up with an economical means to keep  
19 the corrogated out of the landfill and get it to the people  
20 who want to use it?

21 MODERATOR HUSTON: I guess what I'm hearing you  
22 say is that there is likely to be a demand if we can  
23 produce the quality and quantities that is there?

24 MR. JOHNSTON: The thing that you have to look at  
25 now is the amount the south, southeast, has historically

1 been the haven for virgin liner and medium, the figures  
2 used were for brown fiber.

3 Almost every one of those mills has some sort of  
4 recycling program that they are going on with.  
5 Unfortunately, the south doesn't have the capacity to  
6 generate the amount of corrugated material they're going to  
7 need.

8 There are mills capable of recycling that  
9 continue to be either upgraded or built in New Mexico.  
10 Changes in the northwest where there has been virgin  
11 corrugated, virgin craft mills that are now getting into  
12 corrugated, we are going to be into an imbalance.

13 Right now we might have a very low price on OCC.  
14 I think it's only a question of a few years that we'll go  
15 from a low price and apparent glut to a situation where the  
16 price will shoot up, if we can develop an infrastructure  
17 that collects it, and then our collection rate will stay up  
18 and people will do well on the economic side, too.

19 Short term, everyone looks at \$40 a ton, and  
20 says, geez, I'll lose my shirt if I get into that. It's  
21 hard to see past today's economics bad.

22 In a few years we could all be saying why didn't  
23 we collect corrugated a couple of years ago because I could  
24 make a killing if I had a waste yard full of it. Those  
25 times have come.

1           The export market right now is extremely soft,  
2   and I think both of these gentlemen will agree that export  
3   is soft. If you look at 1987, your high year, I had to buy  
4   wastepaper in that market. When the export guys come to  
5   town, you might as well let them have all they want because  
6   they are going to outbid you. Price is not an issue. If  
7   they want it, they get the material.

8           We're not competing as a domestic, we're not  
9   competing right now because there's not enough strong  
10   demand.

11           MODERATOR HUSTON: Thank you.

12           Chris.

13           MR. GEYER: I would like to second what Dick  
14   said.

15           It's important for collection agencies to  
16   continue to look to the future. The way that we're trying  
17   to do it at Project Go, as a nonprofit that is struggling  
18   with the \$35 or \$40 per ton, is involve the clients or  
19   business, it's important for them to realize that there is  
20   a cost savings that is attached to recycling cardboard.

21           As important as it is to collect the cardboard,  
22   we need to educate the business section or business  
23   clientele in our communities that it's absolutely the right  
24   thing to be doing.

25           Eventually, if we get to the point to get close



1 to break even, as Dick said, in a couple of years, I think  
2 it's going to be a profitable market.

3 I would also like to second what Steve said, the  
4 single most important aspect over all of it is demand,  
5 demand, demand, and whenever possible, we need, as  
6 consumers, to make sure of that.

7 I think that's where the State needs to take a  
8 real proactive role, making sure that we're demanding that  
9 it's recycled material that we're using.

10 MODERATOR HUSTON: Thank you.

11 Steve.

12 MR. YOUNG: To augment what Dick said, in the  
13 Southeast, by the end of 1992 we're going to gain one  
14 million tons of OCC recycling capacity.

15 The following mills will be in full operation,  
16 Stone Container in Florida with half a million tons, Inland  
17 Container, Kentucky, 150,000, the one in Valiant, Oklahoma  
18 150,000, plus, and Union Camp and various mills throughout  
19 the Southeast, plus 200,000.

20 I'm not going to be as conservative as Dick is in  
21 predicting an increase in the price of OCC. My feeling is  
22 that he's going to have a tough time buying OCC in  
23 January. It's going to force the entire Far East Basin  
24 market to the West Coast for supply, because these mills  
25 are going to need to reach up into New York and Boston

1 where their traditional export has been moving from, and  
2 secure that tonnage.

3 Quite the contrary, when a domestic mill wants  
4 it, they get it over the export mill, generally. They have  
5 a much bigger ability to pay.

6 It's going to be a struggle because they're  
7 bringing on a little too much capacity all at one time.

8 MODERATOR HUSTON: Any comments or questions from  
9 the audience?

10 Question number three, what product or product  
11 groups presently manufactured with little or no corrugated  
12 do you think represent the greatest potential markets for  
13 this material?

14 Dick, we'll start with you.

15 MR. JOHNSTON: As long as the American public is  
16 enamored with Price Club and Costco and all the other kind  
17 of discount marketing, you'll notice that there has been a  
18 shift in the consumer packaging to bulk cereal and those  
19 things that are very, very attractive to the people in  
20 corrugated.

21 We have watched a lot of material that was in  
22 paperboard move from paperboard to corrugated just because  
23 it becomes a weight factor. If you have enough weight,  
24 enough bulk, then you're going to you see the transition.

25 I would say overall corrugated is a market that

1 has done very well. It's a mature market but one that  
2 happens to be a packaging of choice in many, many cases.

3 MODERATOR HUSTON: You basically see an expansion  
4 because of consumer preference for more corrugated  
5 containers?

6 MR. JOHNSTON: It certainly appears to be.

7 That's what all the people who have built the  
8 mills that Steve just mentioned are hoping at least.

9 MR. GEYER: I agree.

10 It's sort of being driven by consumers. This is  
11 an industry that is going to respond, unlike the plastic  
12 industry.

13 From Project Go's standpoint, we are encouraging  
14 our consumers that participate in our collection programs  
15 and just in the public education aspect that whenever  
16 possible to switch from items like plastic that are not  
17 easily recycled to paperboard and cardboard items.

18 I think as consumers become more aware of the  
19 opportunities that are out there for paperboard and  
20 cardboard, it's going to increase the demands, hopefully.

21 MODERATOR HUSTON: Bernie.

22 MR. MEYERSON: I don't have much to add to that.

23 I think that is also true of the overseas user.

24 I think there is quite a bit of recycled content already in  
25 the overseas packaging, but just to the extent that there

1 isn't, just increasing green awareness will probably result  
2 in more use of the recycled material.

3 The only other thing is the shift of maybe back  
4 to paper products more than plastics, let's say one thing  
5 that we talked about at lunch, were the structured members  
6 of multilayers of a carton, like a pallet, you may see more  
7 of that.

8 That's about all.

9 MODERATOR HUSTON: Okay.

10 Steve.

11 MR. YOUNG: I would say the biggest potential use  
12 other than what we currently have is probably in tissue  
13 products, that being industrial toweling.

14 We've had three mills in the last nine months  
15 switch over to brown generic toweling. They are making  
16 both a household towel and gas station towel or restaurant  
17 towel. It's brown in color and made from OCC.

18 The usage is high. Fort Howard in Green Bay,  
19 Wisconsin is starting a machine that is going to use about  
20 10,000 tons a month. We have Scott Tissue down in Mexico  
21 using about 4,000 or 5,000 tons a month. We have another  
22 one planned by Kimberly-Clark.

23 It's a good possibility that we could get one of  
24 these industrial toweling, household toweling machines in  
25 California, if we can get it permitted and put in.

1           MR. FORAN: The demand for that type of product  
2 is something which ties in with the aesthetic standards  
3 that I talked about.

4           It's encouraging that some relaxation of the  
5 aesthetic standards doesn't only apply to businesses but  
6 also household consumers. We have a passion for bleached  
7 white paper products.

8           Yet, right here at the Board, we have these  
9 wonderful hand towels in the bathrooms that you could  
10 practically shower with and dry off after a shower, and yet  
11 the brown paper towels are just as functional but certainly  
12 provide a greater opportunity for use of wastepaper.

13           That is something that we could look into  
14 promoting from a consumer perspective, acceptance of that  
15 type of product in the household as well as institutional  
16 uses.

17           MODERATOR HUSTON: Any other comments from the  
18 panel or audience?

19           MR. YOUNG: The Board might consider a little  
20 trip to every large manufacturer in the state just to ask  
21 them to use recycled paperboard.

22           MODERATOR HUSTON: The note that I wrote to  
23 myself it appears as though the demand outlook is strong  
24 enough for OCC, and it's a valuable enough product that we  
25 really don't want to try to send it to alternative markets.

1           Is that the case?

2           MR. JOHNSTON: From my perspective, it sure looks  
3 like a product that should stay in stream, be recycled back  
4 into an existing use.

5           MR. YOUNG: After suffering for five years with  
6 \$50 OCC, I think we need all the markets we can get.

7           Sorry, Dick.

8           MODERATOR HUSTON: Okay. We're ahead of  
9 schedule. Let's take a break until three o'clock.

10          (Thereupon a brief recess was taken.)

11          MODERATOR HUSTON: Okay. Let's move on to number  
12 four.

13          We don't think we've had a 25 percent drop off.

14          Okay. Question number four, what are the most  
15 common and most detrimental quality-related problems with  
16 using OCC?

17          Some of these questions have been answered  
18 already. If there is additional information that you would  
19 like to provide, we'll start with Chris.

20          MR. GEYER: From a collecting standpoint, the  
21 thing that keeps being, that I keep being continually  
22 reminded of by Smurfit, the company that we sell our  
23 cardboard to, is to make sure that the quality of cardboard  
24 that we're collecting is something that they can use.

25          I would imagine, from our aspect, we need to

1 focus as collectors to make sure that we are keeping the  
2 wax paper and wax board out of our stream.

3 MODERATOR HUSTON: Wax board, is that your  
4 biggest quality problem, the most detrimental one?

5 MR. GEYER: It is for us.

6 Especially, we have a restaurant and bar  
7 collection program, restaurants are notorious for putting  
8 wax board into their cardboard hoppers.

9 If they don't buy into the program of trying to  
10 sort it and doing a good job of keeping the contaminants  
11 out, somebody has to. It's usually us. Smurfit doesn't  
12 want to purchase, no one want to purchase those kinds of  
13 bales. No one does.

14 Contaminants are the biggest issue for us in  
15 terms of quality.

16 MODERATOR HUSTON: Chris, do you have some  
17 suggestions as to how we can better educate the bar owners,  
18 and bar keeps to keep that out?

19 I'm guessing. I don't have the foggiest idea how  
20 to do that.

21 MR. GEYER: I think it's just a constant reminder  
22 to owners that this is a material that has to be kept out  
23 of the recycling stream. That definitely needs to go to  
24 the landfill.

25 We need to find some kind of paperboard or

1 cardboard that is acceptable that is not a contaminant.

2 I'm not an expert in that.

3 Maybe there is a way to get away from using the  
4 wax board.

5 MODERATOR HUSTON: Okay.

6 Dick.

7 MR. JOHNSTON: Wax and OCC, as Chris mentioned,  
8 is a real problem.

9 To put it into an operating standpoint, why mills  
10 have a real problem with it is that wax acts like a  
11 lubricant. When you're trying to recycle paper fiber, you  
12 want to develop a rebonding of those fibers to make the  
13 product.

14 Wax, because it has the tendency to become a  
15 lubricant in the water system, it destroys the ability for  
16 the fibers to bond. Heavily waxed cartons pose a problem in  
17 trying to get the wax away.

18 You can usually do that with real high heat, but  
19 you have water with wax in it and you have to deal with the  
20 water that is now contaminated.

21 Wax cartons, short of somebody coming up from an  
22 R and D standpoint with some sort of material that is  
23 repulpable in place of wax, will continue to be a problem  
24 with OCC.

25 Another problem that we have seen in the last two



1 years is the fact that many manufacturers that use  
2 corrugated boxes to ship the material, historically, and  
3 anyone who has bought a large appliance four or five years  
4 ago might remember this, they used to put the appliance box  
5 together with huge, enormous staples.

6 Believe it or not, those were not too much of a  
7 problem because they were such a heavy material that most,  
8 fairly rudimentary cleaning systems would throw out a heavy  
9 metal object like that.

10 If you buy an appliance today, you won't find  
11 that. What you'll find is that they run a seam of half-inch  
12 wide hot melt as a glue seam rather than a metal staple.  
13 Hot melt glues are very effective in sealing the box  
14 together and fulfill the user's need as far as selling his  
15 product in a box that doesn't fall apart, has an enormous  
16 downside for the recycler because hot melt for the most  
17 part is a material that has the same specific gravity as  
18 paper fiber.

19 When you recycle, it's neither a light material  
20 which could be floated or thrown away with light  
21 contaminants, nor is it a heavy material that could be  
22 thrown away as the metal was. It tends to just go with the  
23 fiber.

24 Where that becomes a real problem is from  
25 aesthetics and from paper production on aesthetic-sense it

1 looks like when you produce it and it goes across the dryer  
2 as you dry your paper, you now have a very dark spot like  
3 somebody spilled oil or gotten a dark foreign material on  
4 your product which makes the product undesirable.

5 In the case of people making medium or liner, if  
6 they get into heavy contamination of hot melts, they can  
7 form a small holes that the web will break when they're  
8 producing the product.

9 Just in the producing sense, in a paper mill,  
10 heavy hot melt contaminants are difficult to deal with.

11 I know one producer of hot melt glue that is  
12 working on a water soluble recyclable hot melt glue, but  
13 it's not marketed yet because they haven't perfected it.

14 That will be a tremendous improvement. Anything  
15 that the State can do to encourage it, even with a letter,  
16 go for it guys. It's great. It would really help the  
17 recyclers.

18 The other one that doesn't affect all of the  
19 mills that use OCC but affects some of us, if we can  
20 educate the public not to commingle, keep OCC out  
21 separate. When we commingle and pick up the food trash and  
22 the other things that we really don't want, we take the  
23 value of something that is very recyclable and reuseable  
24 and salable, and we quickly start to degrade the value.

25 Commingled waste going to a transfer station for

1 many recyclers is an unacceptable way to get their  
2 corrugated. It's better to come up with a method to  
3 separate at the source, and then we have a cleaner material  
4 and we will improve our recovery rates.

5 MODERATOR HUSTON: Thank you.

6 Bernie.

7 MR. MEYERSON: I think we have pretty much dealt  
8 with wax, and that is certainly a major problem.

9 I did mention before to Dick that Georgia Pacific  
10 has recently come out with a corrugated board that has a  
11 poly liner on it. The idea is to use that instead of the  
12 wax cartons.

13 Their literature says that it's repulpable with  
14 the poly liner. If that is so, that is one of the  
15 directions that R and D can go to find an alternative to  
16 waxing. It would certainly help.

17 Heavy taping is a problem for some users. Even  
18 though there's essentially one listed grade for OCC, in the  
19 export markets, you get a couple of variations, what is  
20 known as Japanese quality, Korean special OCC, and regular  
21 OCC, and most of those are related to the levels of  
22 tolerance of different kinds of materials which are in turn  
23 related to the effectiveness of their own cleaning systems  
24 back home.

25 Japan never really installed very sophisticated

1 cleaning systems because their internal return system of  
2 OCC does very extensive cleaning of the material before it  
3 gets to the mill, so the mill never had to make big  
4 investments. When they want it from us, they want it in  
5 similar condition.

6 They have resistance to some of the OCC that is  
7 generated in Taiwan, the yellowish color boxes which don't  
8 have as good fiber yield not the same fiber strength, and  
9 the color bothers them a little bit, too.

10 There are individual variations. Certainly wax  
11 and plastic.

12 Then it goes without saying that in terms of the  
13 commingling issue that there are certain materials that you  
14 do not want with corrugated or any other paper product like  
15 glass, for example, would be just as serious a contaminant  
16 to OCC as any other paper grade in the papermaking  
17 process.

18 Very, very, heavy moisture, wetness, would be a  
19 problem because very, very wet fibers tend to breakdown  
20 early on. So, that's not very desirable either.

21 That's a seasonal thing.

22 MR. FORAN: I would like to follow-up with what  
23 Bernie mentioned about the poly-coated corrugated, and ask  
24 Richard -- I'm aware of the technology that handle  
25 poly-coated SPS, septic packaging, and people are working

1 on that.

2 Is it conceivable to take a poly-coated  
3 corrugated and do the same process, remove the polyethylene  
4 coating, which may or may not be easier to deal with than  
5 wax, and come up with fiber and screen off the poly?

6 From what you know from your technical end, is  
7 that --

8 MR. JOHNSTON: I know of a mill in the U.S. that  
9 is buying milk carton stock today, at a very good price. I  
10 won't tell my friends to my left where or anything that  
11 would get me in trouble with those guys, but they buy milk  
12 carton stock at a very good price.

13 They do strip off the poly that is the milk  
14 carton stock. That gives them essentially almost a white  
15 pulp yield as their product. Yes, technologically, it's  
16 doable.

17 You're back to your choice as a capital  
18 investment for a cleaning system to deal with that  
19 specific.

20 I think what Bernie was suggesting is that  
21 Georgia Pacific may have announced a poly-coated material  
22 that would be thin enough to fulfill the requirement of the  
23 corrugated box user but at the same time maybe pop off in  
24 heat and normal pulping and become water soluble and break  
25 down so that it doesn't require specialized cleaning

1 equipment to take it out.

2 MODERATOR HUSTON: Okay.

3 Steve.

4 MR. YOUNG: I'm going to sum up a bit.

5 OCC, the main contaminants are wax, poly and  
6 short fiber, which are foreign boxes, stryofoam,  
7 webstrength coating, hot melt, self-seal, smell and  
8 excessive moisture. Let's talk a little bit about each one  
9 of these things.

10 First of all, I have wax. Wax is a mainly  
11 concentrated in market chain bales.

12 I have done audits. I handle two of the largest  
13 market chains in Southern California. I have done audits  
14 of the bales. I stand there and sort each bale.

15 We sell it for select OCC. On the outside we  
16 couldn't find any wax. When we got in the center of it, I  
17 have a very good eye for what is called wax medium board,  
18 and the amount of wax medium board that I found in there  
19 was incredible. More than one percent. More like one and a  
20 half or two percent.

21 We did find a couple of boxes which were waxed on  
22 the outside. Those were 50 percent wax by weight, which  
23 makes them a big contaminant.

24 There was a lot of poly. There was a little bit  
25 of short fiber, but they're mainly long fiber, mainly boxes

1 made in the U.S.

2 There was some stryofoam. We didn't find much  
3 webstrength. You find those mainly in the banana boxes.  
4 Those are pretty much kept out.

5 We did find a lot of hot melt and self-seal. We  
6 did not have any smell, surprisingly, even though it was  
7 market corrogated.

8 We didn't have excess moisture because they  
9 basically don't add moisture.

10 Where you run into the problem with smell is in  
11 the transfer station operation. We find that when they  
12 sort the trash from the OCC, that it has an inherent  
13 smell.

14 We can ship fifty-container lots to almost any  
15 mill in the Orient, and we'll put three containers from a  
16 transfer station on there, the quality is a little off, but  
17 not much to the eye, but each time they tell us please do  
18 not include any more from source 27-A because the smell  
19 permeates our product and goes right through to the finish  
20 product.

21 When you deal with transfer stations, you have to  
22 be very careful. We have been selling these to medium  
23 makers in the Orient, and even they are complaining. It's  
24 becoming difficult for us move some of this material.

25 One thing we should do, and maybe the state,

1 Allan Company or group of us would like to look at putting  
2 in a mill to use wax OCC. There is a use for wax OCC. It  
3 should command a higher price.

4 We could get the market chains to separate it out  
5 and use the wax as well as OCC.

6 MR. MEYERSON: I just heard last week that there  
7 is a company that is proposing to site in Modesto that is  
8 going to take just wax cartons.

9 MR. YOUNG: It's an egg carton, self-service tray  
10 carry style, all that material contains some wax, and it's  
11 all made from fiber.

12 The idea is, of course, to use the wax and fiber  
13 and conserve the wax. We have done a little bit of  
14 experiment with a couple of customers of ours, they have  
15 been able to use the wax fine.

16 I would not doubt that there is somebody in  
17 Modesto trying.

18 MODERATOR HUSTON: Okay. Any comments from the  
19 audience?

20 Any further comments from the panel?

21 Question number five, what activities and  
22 programs would be most effective for the Waste Management  
23 Board to pursue to assist the old corrugated market  
24 development?

25 Are new government programs needed, and at what



1 level?

2 I'm not necessarily suggesting here that these be  
3 regulatory programs. Administrative, education, promotion  
4 programs are also under discussion.

5 Then finally, what can industry do to aid in the  
6 market development?

7 Steve, we'll start with you this time.

8 MR. YOUNG: I don't think there is going to be a  
9 need for government intervention into generating supply of  
10 OCC.

11 I think that the price, which should start to  
12 jump in the next month or two, is going to bring out an  
13 increasing supply. I think we're looking at very little  
14 probably ending up in the landfill.

15 I sat at a couple of a transfer stations and I'm  
16 buying the corrugated from one that generates 600 tons a  
17 day. He generates three loads of corrugated a week.

18 He probably generates four but he gets out only  
19 three of them. He has a crew of thirty guys picking.

20 There is not a lot of corrugated. That's 60 tons  
21 a week out of 13,000 tons. When you look at that, there's  
22 not a lot of corrugated going through the transfer  
23 station. That's a pretty good cross-section of commercial,  
24 industrial and household.

25 I think that subsidy to generate the material is

1 not needed at the present time. What is needed is just a  
2 little helping hand from the State when one of these mills  
3 wants to do an expansion or somebody talks about putting in  
4 a new mill, maybe some hand-holding would be necessary, in  
5 other words, putting a crew together of an engineer and  
6 somebody familiar with the Boards around the state and can  
7 deal with the counties and cities, that would be a vast  
8 help to these people.

9           Everytime we talk to anybody when they talk about  
10 putting in a mill, they say, not in California. We're  
11 going to Arizona or New Mexico or X, Y and Z.

12           I don't know if it's the restrictions on the  
13 effluent, or if it's the power costs or what the exact  
14 parameters are which keep them from California. That has  
15 to be examined, defined and dealt with.

16           These are good industries. We want them in  
17 California. They are recycling. Their source of supply  
18 may be partially California, if they are out of state, but  
19 it's sure not going to be 100 percent California.

20           MODERATOR HUSTON: Thank you, Steve.

21           Bernie.

22           MR. MEYERSON: Actually I would like to pick up  
23 on one of the recommendations that Steve made at the  
24 beginning of our session, which was might be useful to have  
25 the State carry out a study to try to determine why the

1 break bulk shipping seems to be more expensive on the West  
2 Coast than it is on the East Coast and see if there are any  
3 factors that could be mitigated to alter that.

4 I think the State should also support the kind of  
5 R and D efforts, like the kind that Georgia Pacific is  
6 being involved in, to see if something can be done to  
7 change the nature of wax packaging to see if there is an  
8 alternative more amenable to recycling.

9 Lastly, to reiterate something that I said  
10 earlier, it's terribly important, not so much as a positive  
11 action, but to encourage local communities not to come down  
12 unduly hard on the informal sector, because I think without  
13 the informal sector, especially the incremental recovery of  
14 OCC will be exceedingly difficult.

15 MODERATOR HUSTON: Okay.

16 Dick.

17 MR. JOHNSTON: I would suggest that an area of  
18 potential opportunity is in education of the businesses.

19 Predominantly, it's retail and small industrial  
20 that do not generate enough to have a contractor agreement  
21 with a wastepaper hauler currently, and a lot of their  
22 corrugated material ends up in a trash dumpster.

23 As far as developing alliance, the best vehicles  
24 is the fact many of those small retail and commercial,  
25 small industrial people are in chamber of commerces in

1 their city, we have a State Chamber that stays in contact  
2 with the local chambers, and I hope not at great expense to  
3 the State, the Board working through the State Chamber to  
4 the local chamber levels would be a natural vehicle to  
5 disseminate both the educational information as well as  
6 helping to establish a more alliance to make these things  
7 come about.

8 MODERATOR HUSTON: Thank you.

9 Chris.

10 MR. GEYER: I would like to second that.

11 Education, as far as a nonprofit collecting  
12 company is concerned, is probably the foremost aspect of  
13 this process.

14 The other thing that I think is important is to  
15 continue to bring the collectors together with the people  
16 handling the material so that we're all looking at the same  
17 picture. Sometimes when we're looking at the bottom line,  
18 it's easy to get discouraged.

19 Even though our best sense says we want to do the  
20 right thing, it's the bottomline that dictates the  
21 day-to-day. It's encouraging to be at a meeting like this  
22 and see that we're looking at a bright future.

23 Education, especially with the business segment  
24 of communities, as Dick said, the small chains, the little  
25 centers of ten or twelve small stores, they really don't

1 generate enough cardboard to get into the situation where  
2 they are able to contract with a major hauler, but they  
3 have enough cardboard that ends up in the landfill that no  
4 one is taking.

5 Continuing to try to promote the recycling of  
6 that material and encourage the local governments to work  
7 with the haulers and nonprofits and anyone else who is out  
8 there working to try to keep it out of the waste stream.

9 MR. FORAN: Chris, I would like to ask what your  
10 sense is of the prevalence of operations similar to yours  
11 in other communities?

12 While Richard's suggestion is well taken to try  
13 to get the word out to municipalities through the chambers  
14 of commerce and otherwise to try to tap into the untapped  
15 sources of OCC, it's still a logistical problem of who is  
16 going to collect that with small volumes generated?

17 MR. GEYER: In a situation like Placer County,  
18 which is a small county, rural in nature, if it's not a  
19 collecting company like for profit or nonprofit, for profit  
20 or nonprofit, if you're in recycling, the municipalities  
21 are going to have to do it or hauler is going to have to do  
22 it. Someone has to get in there.

23 There has to be incentive for them to provide  
24 those types of programs. It has to happen. It cannot  
25 continue to go into the landfill.

1           In our county, we're looking to build a dry MRF  
2 will eventually take that material. There is a real  
3 conflict between source reduction, which in my opinion is  
4 the key, to a dry material recovery facility, or a dirty  
5 material recovery facility that is going to take all of the  
6 waste stream.

7           In the period of time that it gets built, I think  
8 that what is going to happen it's going to be profitable to  
9 be in cardboard recovery for the next six months to a year  
10 and a half to two years, and people will get into it.

11           MR. FORAN: What can the Board do to encourage  
12 more operations, such as yours, with low overhead, to tap  
13 into the marginal supply?

14           MR. GEYER: That's where education has to come  
15 in.

16           If I'm out there saying as a collector to a  
17 business, look, this is a cost-saving program to you. They  
18 are expecting a sales person to say that. In effect,  
19 that's what I am.

20           You need to, the State and local government needs  
21 to reinforce that this is really the only way that we're  
22 going to make this work is that we have to collectively get  
23 together. It gives me credibility when I'm out there  
24 trying to argue that point of view with a business person.

25           Even though the bottomline you can show them, if

1 they are paying \$30 a month for each time to have their  
2 five yard dumpster removed, if you can save one or two  
3 dumpings because of the cardboard, you're talking \$60. Give  
4 me some and you put some in your pocket.

5 It's a hard sell to overcome.

6 MR. YOUNG: Dick operates twenty plants. Those  
7 collectors collect from all of the smaller shopping  
8 centers. It's the basis of supply, the liquor store, and  
9 mom and pop burger store, and all of the rest of the  
10 smaller facilities.

11 If the price drops too low, they will stop  
12 collecting. To date that has not happened.

13 MR. MEYERSON: I would like to build on that and  
14 say, I think the first order of activity in any community  
15 to determine whether to support a nonprofit group or ask  
16 the city to pick up something is to find out what is  
17 actually going on there.

18 I think that you will find in most communities as  
19 long as the price is at a reasonable level, you're going to  
20 find an element of this mosquito fleet. It's not very  
21 effective to create an institutionalized structure to force  
22 those guys out of business, because there is tremendous  
23 social benefit to those people doing what they are doing.

24 Not only the positive of what they are bringing  
25 in, but the fact that they are earning somewhat of a living

1 off this and what impact they have on the welfare community  
2 if they are not in the position to do that would be a  
3 tremendous cost to the community.

4 It's important. Just because they are an  
5 informal sector doesn't mean that they are not important.  
6 That should be investigated first. We should not assume  
7 that a community just has a blank slate with nothing  
8 happening.

9 As Steve indicated, one of the quickest ways to  
10 find out if that structure exists are to identify the buy  
11 back areas within a reasonable area and find out who is  
12 bringing in the material to them.

13 Not specifically, but are they served by a  
14 mosquito fleet? If they are, chances are that they are  
15 doing a pretty good job.

16 MODERATOR HUSTON: Okay. Any comments from the  
17 audience?

18 MR. FORAN: I would like to say that it's well  
19 taken. You folks are seeing the mosquito fleets.

20 Our people are seeing statistics coming in from  
21 the cities and counties of how much corrugated is ending up  
22 in landfills.

23 Even with more accurate estimating procedures  
24 such as through the Western States Marketing Study, you  
25 still have 1.2 million tons of corrugated going to



1 landfill. Be that as it may, I don't think we should be  
2 leaving the means to themselves for the corrugated to come  
3 up.

4 Maybe as prices come up, that disposal figure  
5 will go down and the mosquito fleet will be more active.  
6 Project Go and those organizations are not what I would  
7 consider institutional and necessarily impinging on the  
8 mosquito fleet.

9 The private nonprofits certainly serve a  
10 beneficial use or of great benefit to our society as well.

11 MR. GEYER: The reality is, talking about Placer  
12 County, the number of buy backs that pay for cardboard  
13 right now, there is two for the whole county.

14 We're not talking cardboard on the same level as  
15 aluminum cans. If someone is going around collecting  
16 cardboard to stay off welfare, we should probably let Pete  
17 Wilson know immediately, so that he can come up with a new  
18 program because there is lots of cardboard out there.

19 MR. MEYERSON: There is one more point that I  
20 would like to stress about supply and demand as it relates  
21 MRFs that the Board should keep in mind.

22 There is an inverse relationship between demand  
23 and the volume that is generated in a MRF. When demand is  
24 low and prices are low, the MRF will get tremendous volume  
25 of the material compared to when demand is high and prices

1 are high, that material will never get into the waste  
2 stream because scavengers will come and pull it out before  
3 it gets in the waste stream.

4           You have a situation where, and the MRF of under  
5 tremendous ongoing pressure to move all material that it  
6 generates when it generates it. If you get too much MRF  
7 creation to pull things like corrugated, they will be  
8 pulling their highest levels of volume at points of lowest  
9 demand, which would be a tremendous market distortion,  
10 which would further negatively impact the price situation,  
11 and that is not very healthy for a commodity market.

12           The advantage of this gentleman's kind of  
13 operation and the mosquito fleet is that they work in a way  
14 compatible with supply and demand. They go pull this  
15 stuff, the incremental tonnage when it's called for by  
16 price and will not do it when the demand is too low.

17           That's much more amenable to the market.

18           MODERATOR HUSTON: Okay.

19           MR. YOUNG: Let me add one other thing.

20           Talking about MRFs, we're talking about a cost of  
21 anywhere from \$60 to \$80 a ton to get the material through  
22 a MRF. If you add that cost to the collection cost of \$40  
23 a ton, or \$50 a ton, you end up with a cost of \$110 to \$130  
24 a ton.

25           When you put this kind of a floor on OCC, you

1 will not have any OCC going to any MRF. There will not be  
2 any to pick out.

3 MR. FORAN: Are you suggesting that it's going to  
4 be a \$130 a ton corrugated prices?

5 MR. YOUNG: You's put a floor on corrugated of  
6 anywhere from \$110, you'd put a floor on the collection  
7 cost and MRF cost on corrugated.

8 Our floor cost in LA is about \$22 a ton to dump  
9 trash, and about a \$35 a ton collection fee. Okay. So you  
10 have \$57, you're going to double that floor price.

11 That means that Allan Company is going to put  
12 three-yard bins in every commercial and industrial building  
13 for five miles on either side of it's plant, and every  
14 other wastepaper plant is going to do that, and we're going  
15 to charge X-amount of dollars per bin and pick it up and  
16 give the guy credit for the corrugated, depending on what  
17 the market is.

18 The MRF will not have corrugated to sort out.  
19 They won't have to worry about sorting corrugated.

20 MODERATOR HUSTON: Okay.

21 Now, are we done with question number five?

22 Okay. Question number six, this one can go  
23 quickly if that's good.

24 Are the standard industry definitions for  
25 corrugated adequate, or do you think that further

1 refinement of these definition is necessary?

2 Chris, we'll start with you. You're on the  
3 collection side.

4 MR. GEYER: At present, they seem to be, from my  
5 standpoint or our standpoint, clear enough.

6 As it evolves, we need to make sure that we're  
7 aware of that. Usually we don't have any problem being  
8 told what is happening or what the changes are.

9 I don't have a problem.

10 MODERATOR HUSTON: Okay.

11 Dick.

12 MR. JOHNSTON: The suggestion that I have is that  
13 you go back to the people that you got your initial survey  
14 data from and make sure they understand what corrogated  
15 is. I have a feeling that they counted something other  
16 than corrogated.

17 MR. FORAN: For the high generation figures?

18 Yes.

19 MR. JOHNSTON: Other than, I don't have a  
20 problem.

21 MODERATOR HUSTON: Bernie.

22 MR. MEYERSON: I think that the present standards  
23 are perfectly adequate.

24 I can conceive of someplace down the line if the  
25 relative proportions change very much that there might be

1 some mention in the PS standards of the short fiber  
2 material. But other than that, not very much.

3 I can tell you very easily why they had such a  
4 high generation figure. Knowing how they carried out their  
5 studies, it's actually a figure derived from disposal, from  
6 an analysis of material disposed. Since it's so visible,  
7 and so easily identified, my sense of it seeing how a lot  
8 of those were carried out at the landfills, that the people  
9 who were assigned the job of actually picking the stuff out  
10 and separating it out in the catagories, OCC got done very  
11 well, and the other stuff didn't get done so well, so it  
12 got to be a very distorted figure.

13 MODERATOR HUSTON: Okay.

14 Steve.

15 MR. YOUNG: Guidelines, I suggest, as Bernie  
16 said, an Oriental OCC grade because there are some plants  
17 generating that, and it's becoming more prevalent.

18 As to the conclusion that we are recovering 26.1  
19 percent of the corrogated in California, that's not true.  
20 My guess is that we're recovering somewhere around 70  
21 percent. The generation figures are enormous.

22 The United States produces 24 million tons of  
23 craft liner board medium a year. We're roughly ten percent  
24 of the population. We should be using 2.4 million tons.  
25 We're probably recovering 1.8 to two million tons, if you

1 take out what we take through from out-of-state, Arizona  
2 and Utah, et cetera.

3 It's obvious that the Board needs to look at who  
4 is doing these surveys and how they are doing them and set  
5 the parameters as to how they are done. When the decisions  
6 are made based upon surveys taken, and those surveys are  
7 inaccurate, you can spend millions and millions of dollars  
8 going in the wrong direction.

9 MODERATOR HUSTON: Okay.

10 Any comments from anybody at this point? Any  
11 questions?

12 MR. GEYER: I think that's really true.

13 A lot of the consultants that help put some of  
14 these figures together are probably now collecting  
15 cardboard to make a living.

16 MODERATOR HUSTON: Okay. Anything else?

17 MR. FORAN: Response to Chris, they are selling  
18 market development plans to the state for corrogated.

19 MR. GEYER: It's good that they are doing  
20 something.

21 MODERATOR HUSTON: Okay. I want to particularly  
22 thank the four panelists who are here today. I'm delighted  
23 that you took the time and shared your expertise and  
24 opinions and knowledge with the staff and others in the  
25 audience.

1           I think most of audience is our staff, but that's  
2 useful for us. I do not want the lack of filled chairs in  
3 the audience to be any indication at all that this is not  
4 an important topic to us and that we're not concerned about  
5 what we do or how we do it to either stimulate markets or  
6 not to stimulate markets, as the case may be.

7           Thank you all. I encourage and invite you to  
8 continue to stay involved in our process. Brian, I know  
9 will be sending you his Draft Action Plan just as soon as  
10 it's ready. We would appreciate your comments on that.  
11 Give us your feedback as we are developing our  
12 comprehensive plan for the Board to pursue over the next  
13 eighteen months to two years, give us your feedback on that  
14 as well.

15           This morning's session had a recommendation that  
16 we continue to have meetings with industry, that we get  
17 involved and have forums, meet with the various companies  
18 and various segments of industry to share information and  
19 bring problems and solutions to light, and I think that's a  
20 very exciting kind of activity that the Board can do, and I  
21 encourage all of you to stay involved with that to the  
22 degree that you can.

23           Thank you so much. The workshop is closed.

24           (Thereupon the workshop was adjourned  
25           at 3:55 p.m.)

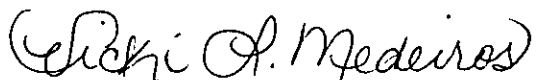
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